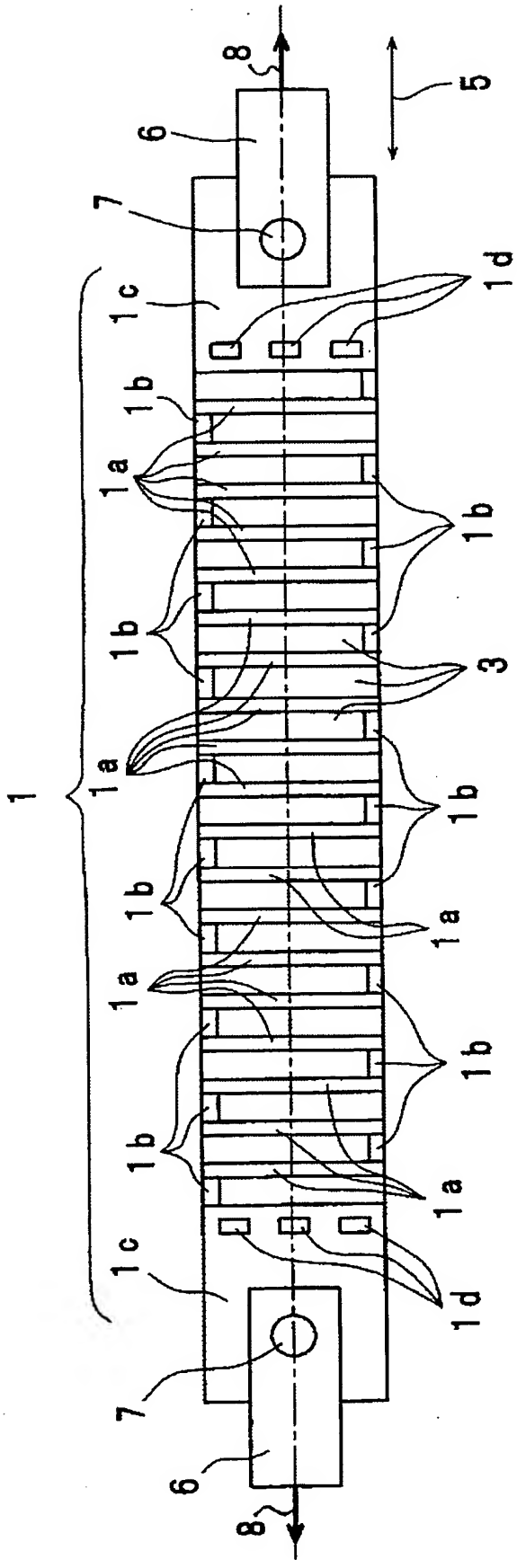
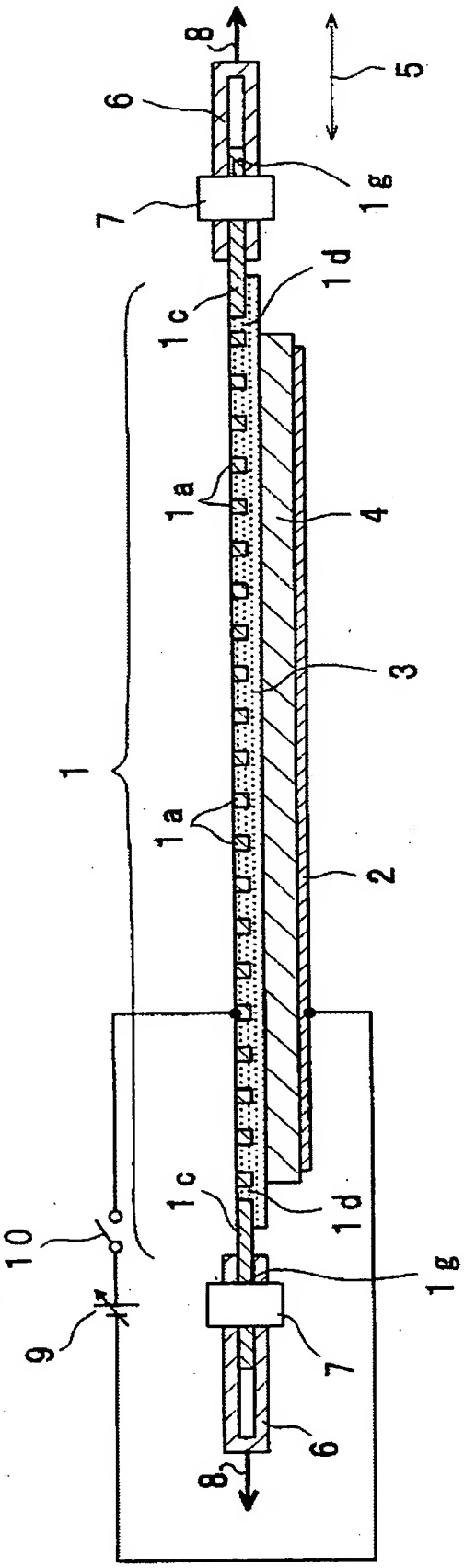


Fig. 1A

Fig. 1B



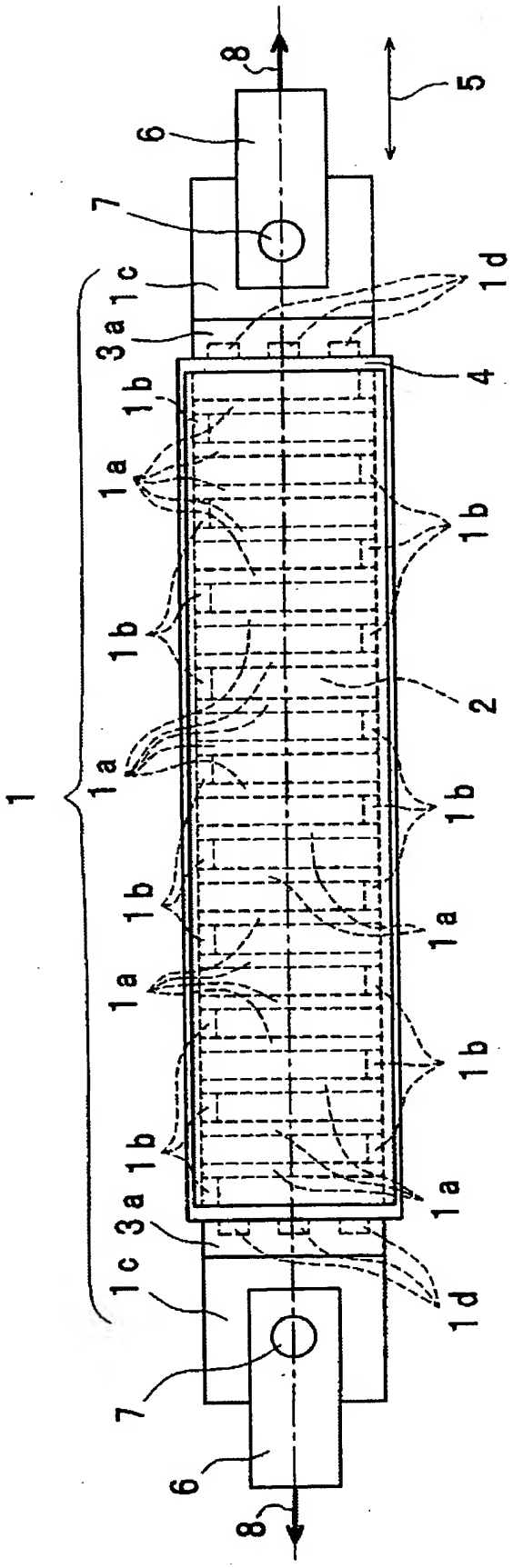
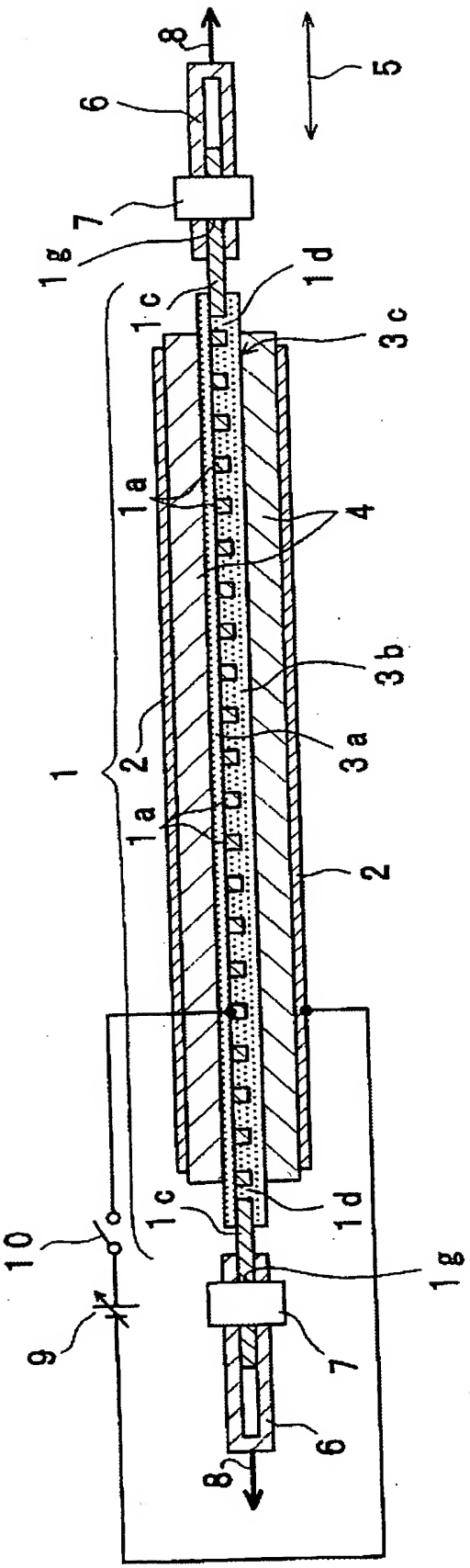


Fig. 1C

Fig. 1D



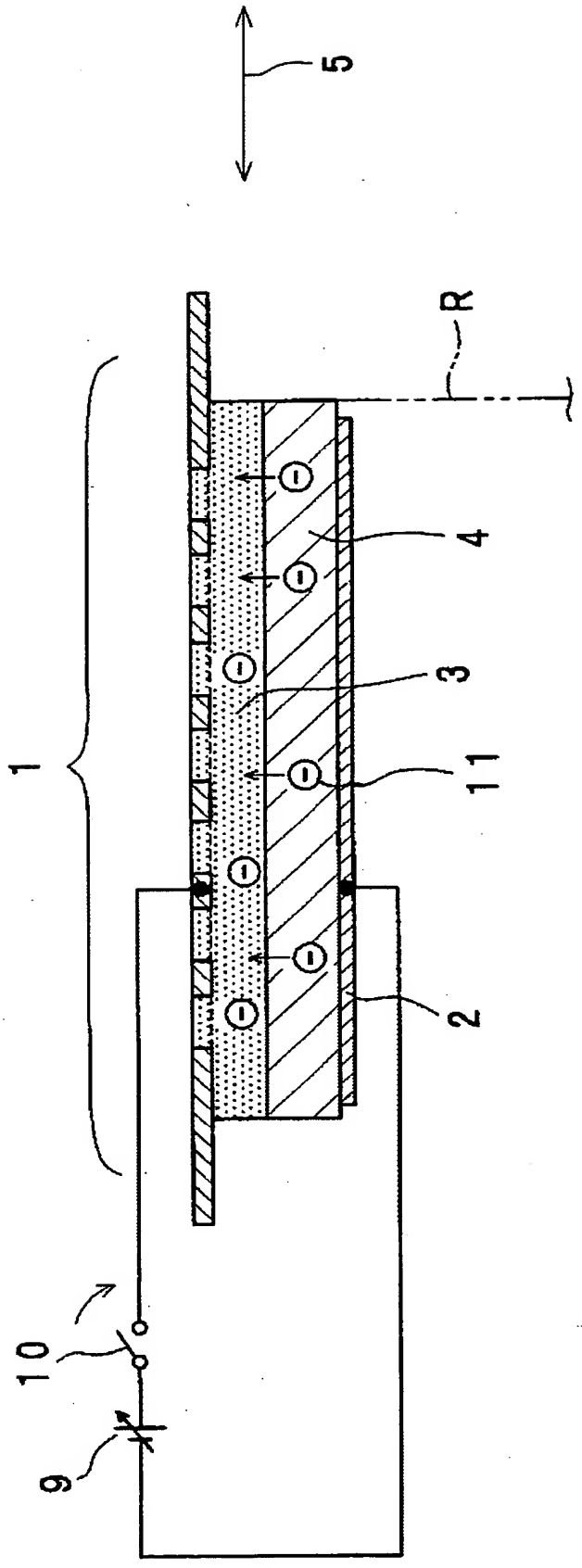


Fig. 2A

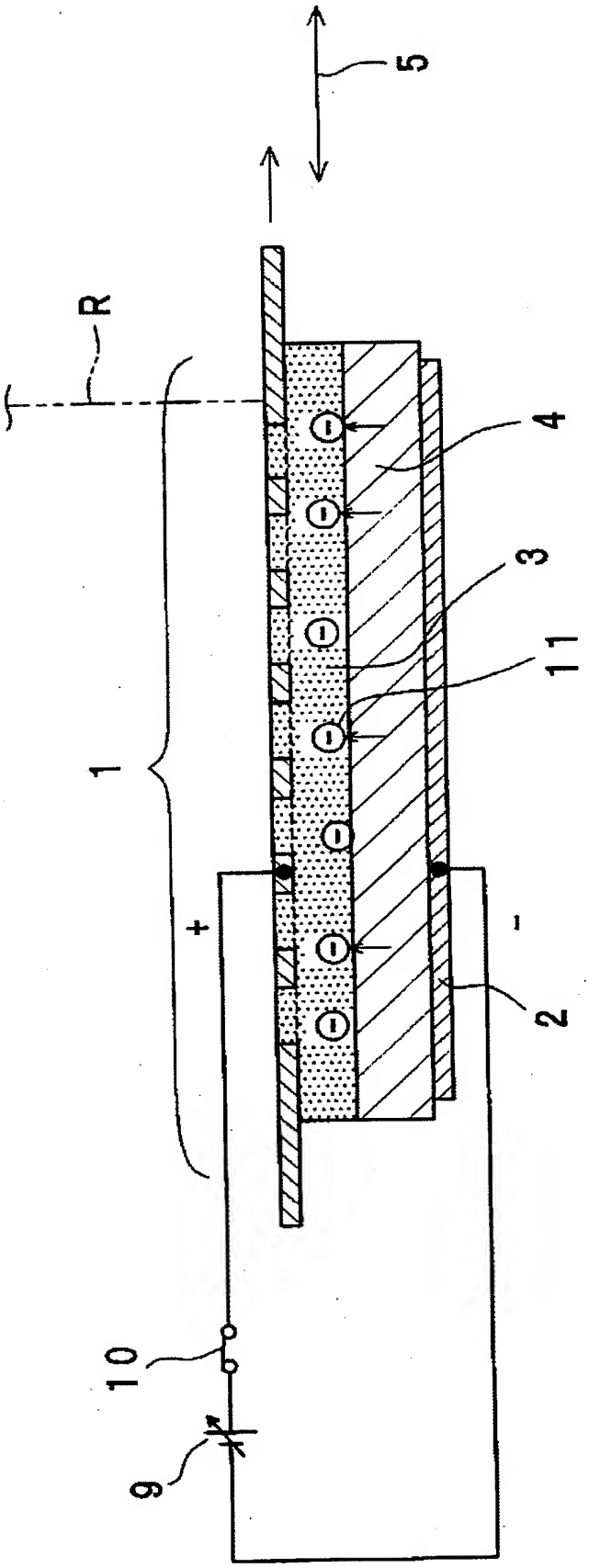


Fig. 2B

Fig. 2C

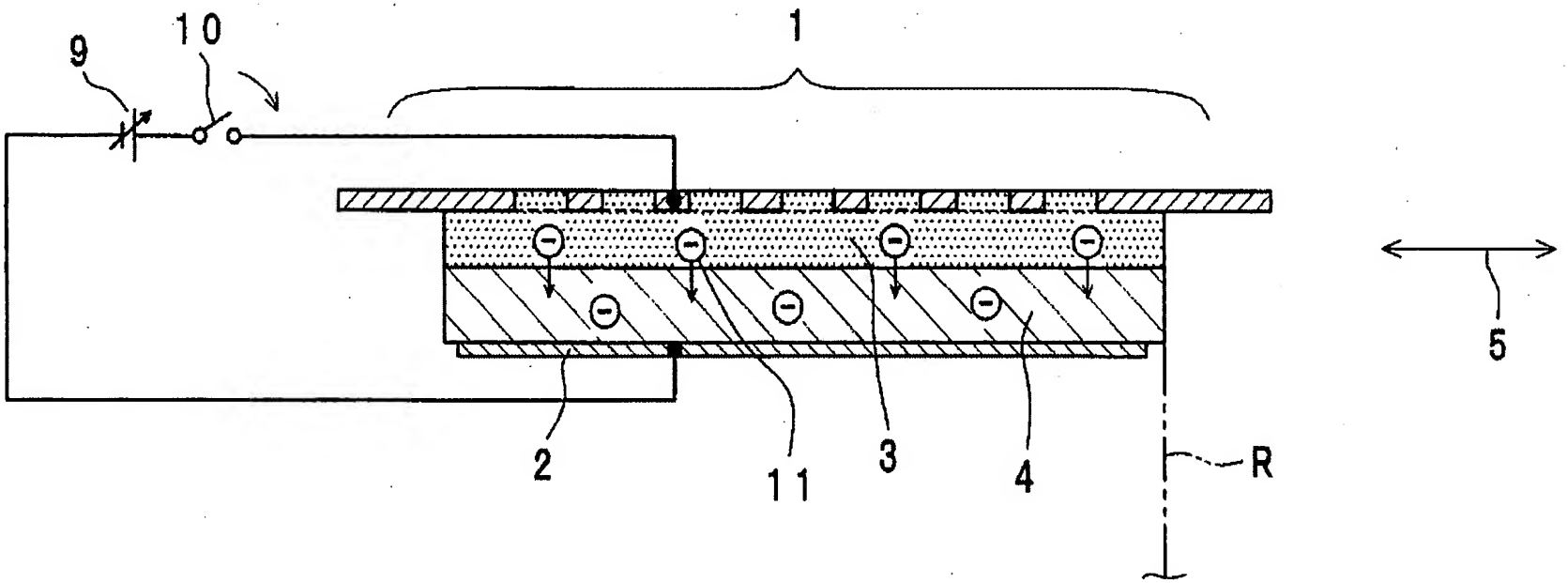


Fig. 2D

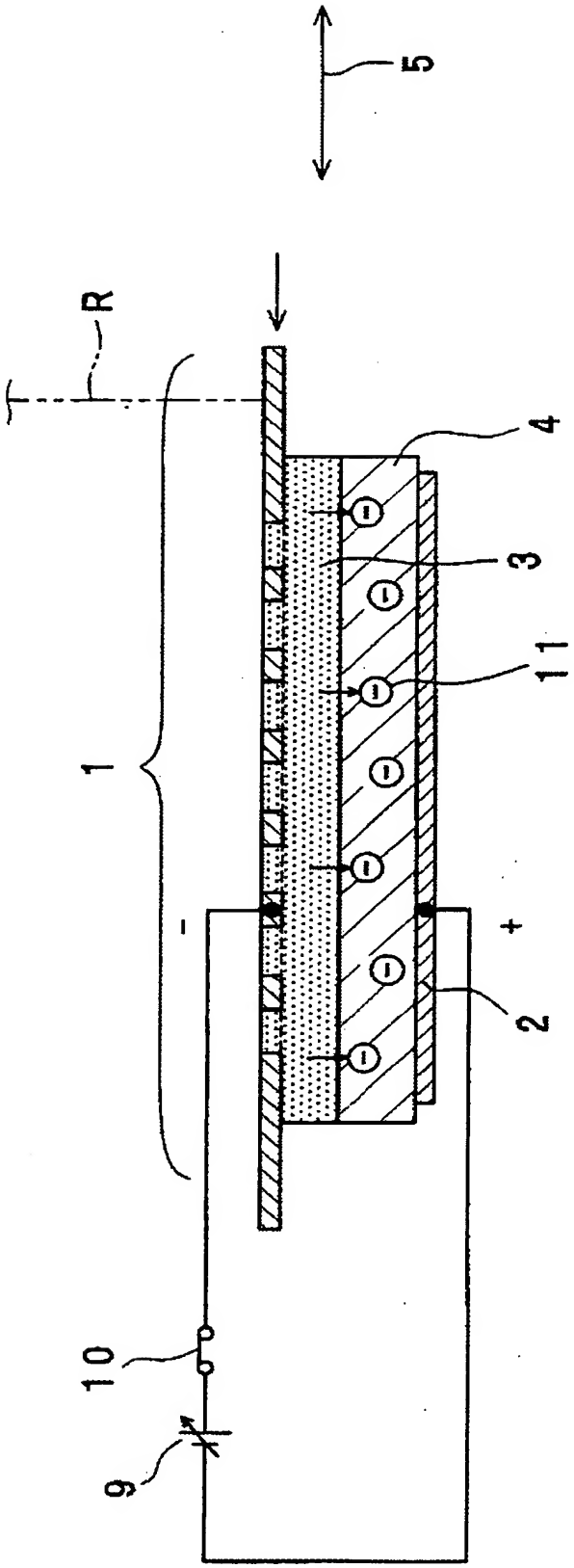


Fig.3A

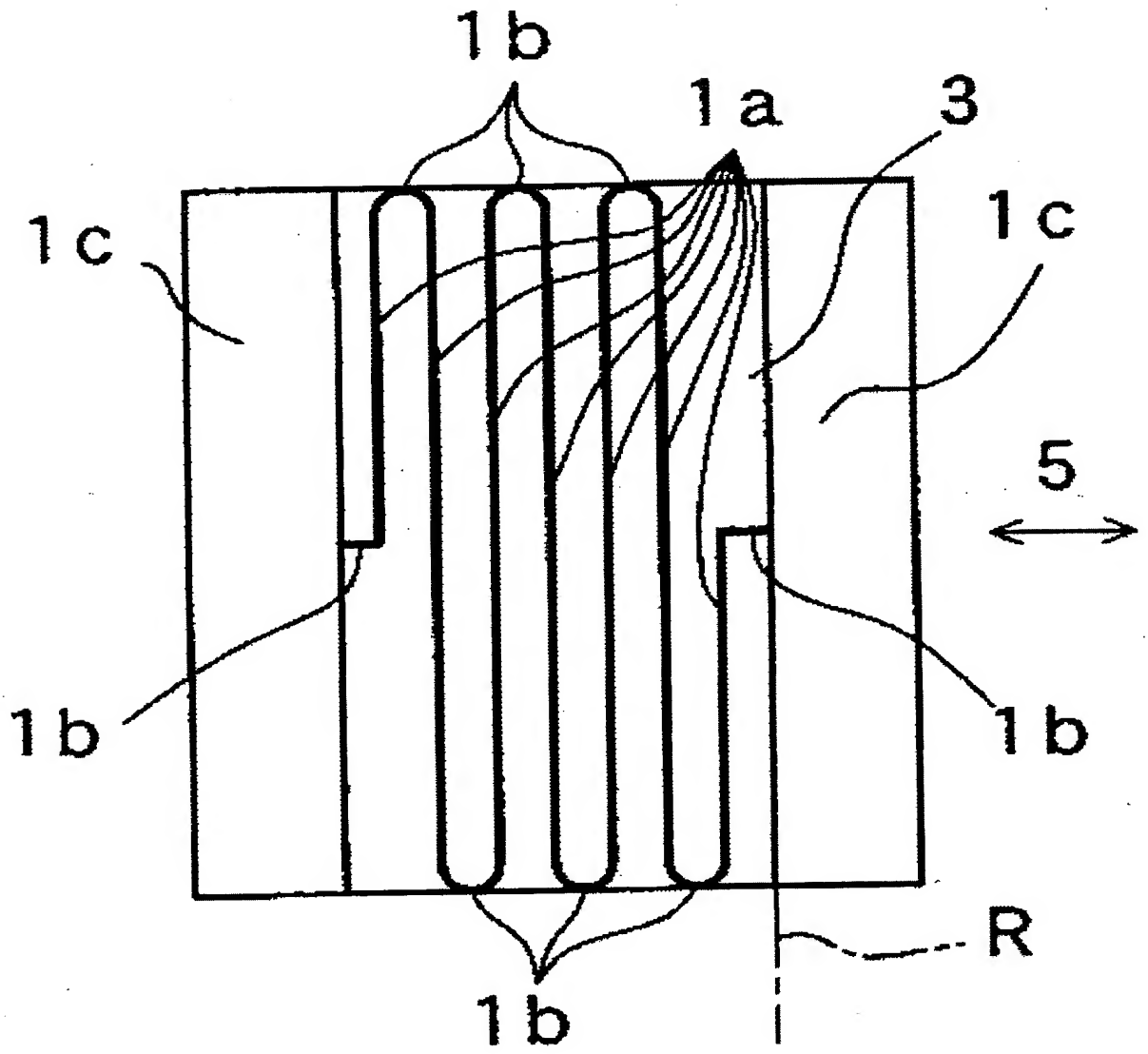


Fig.3B

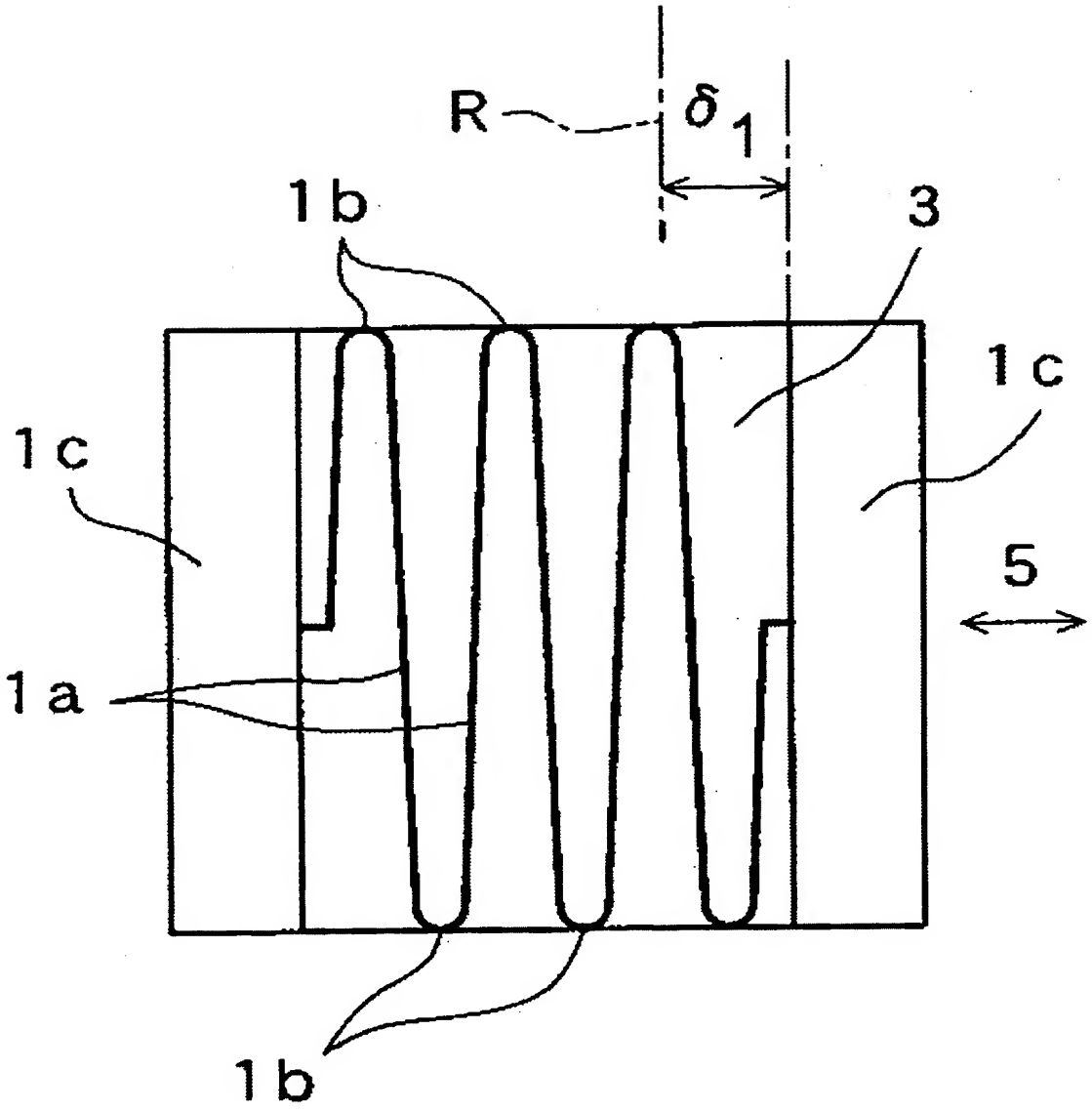


Fig.3C

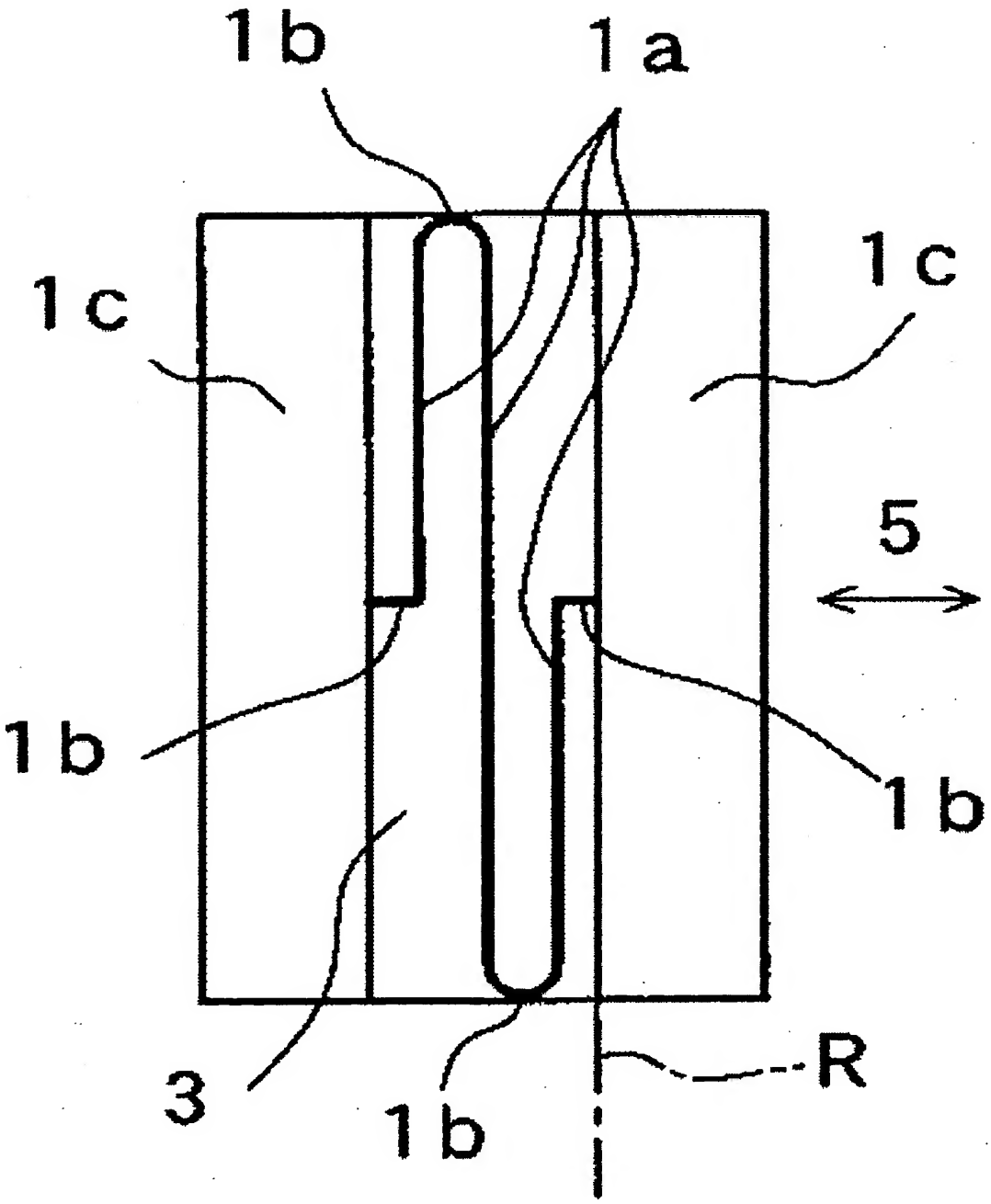


Fig. 3D

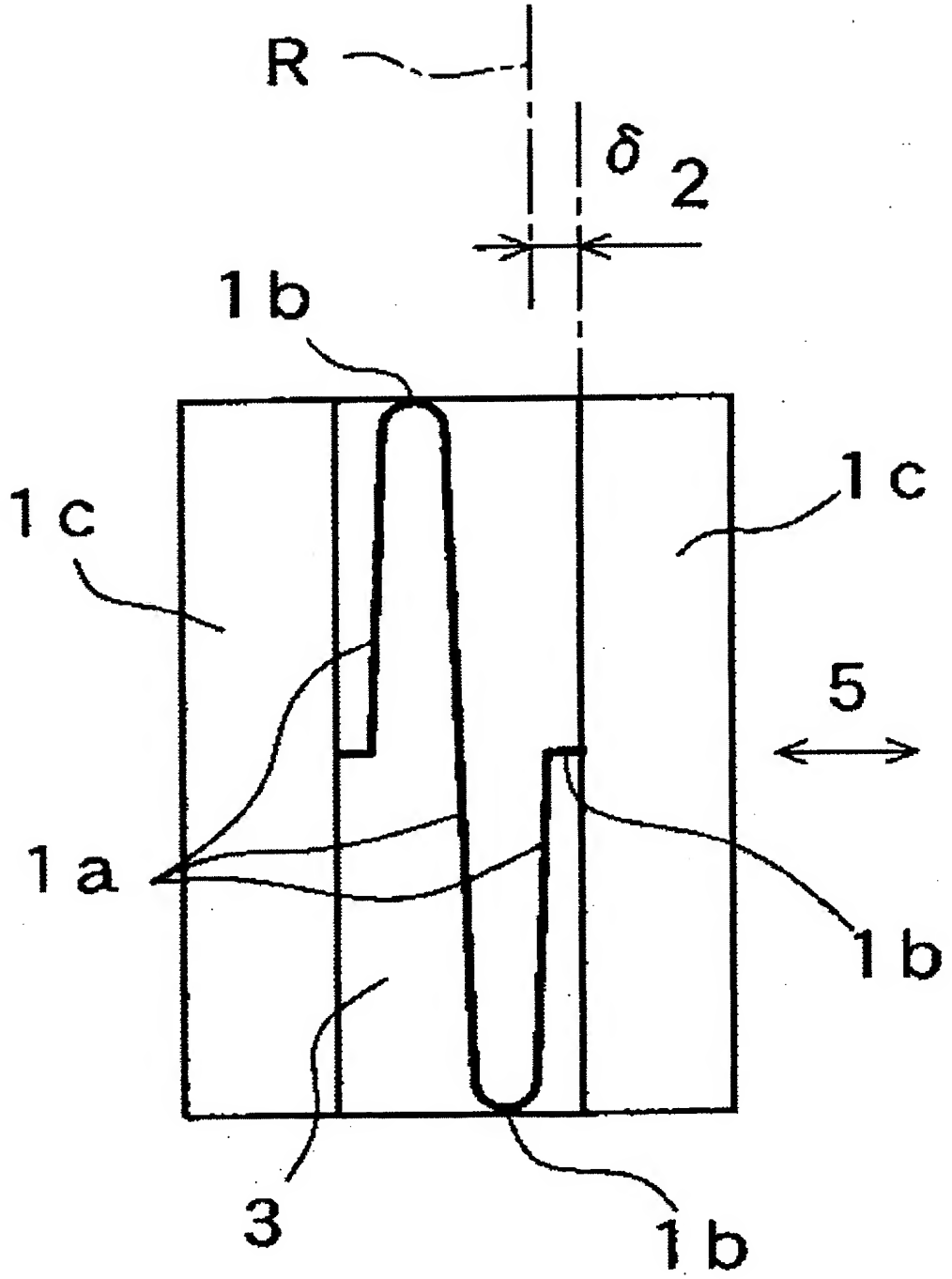


Fig. 3E

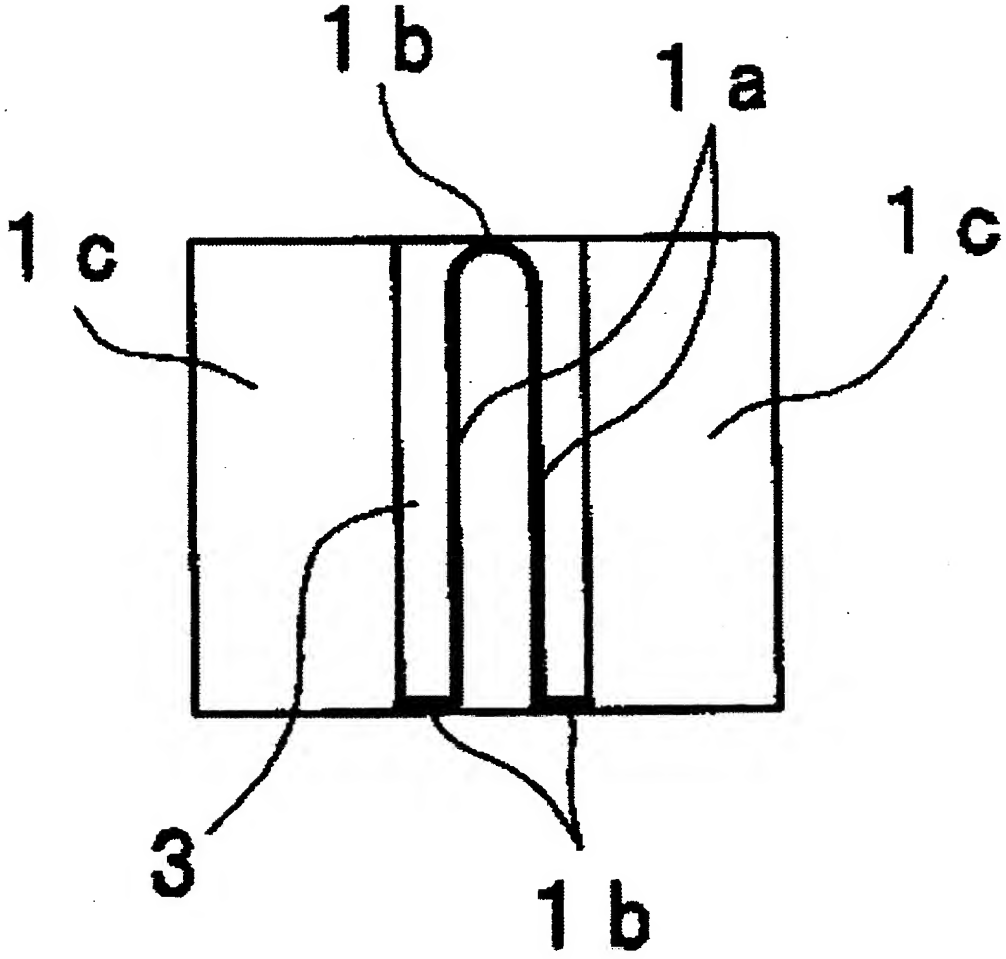


Fig. 3F

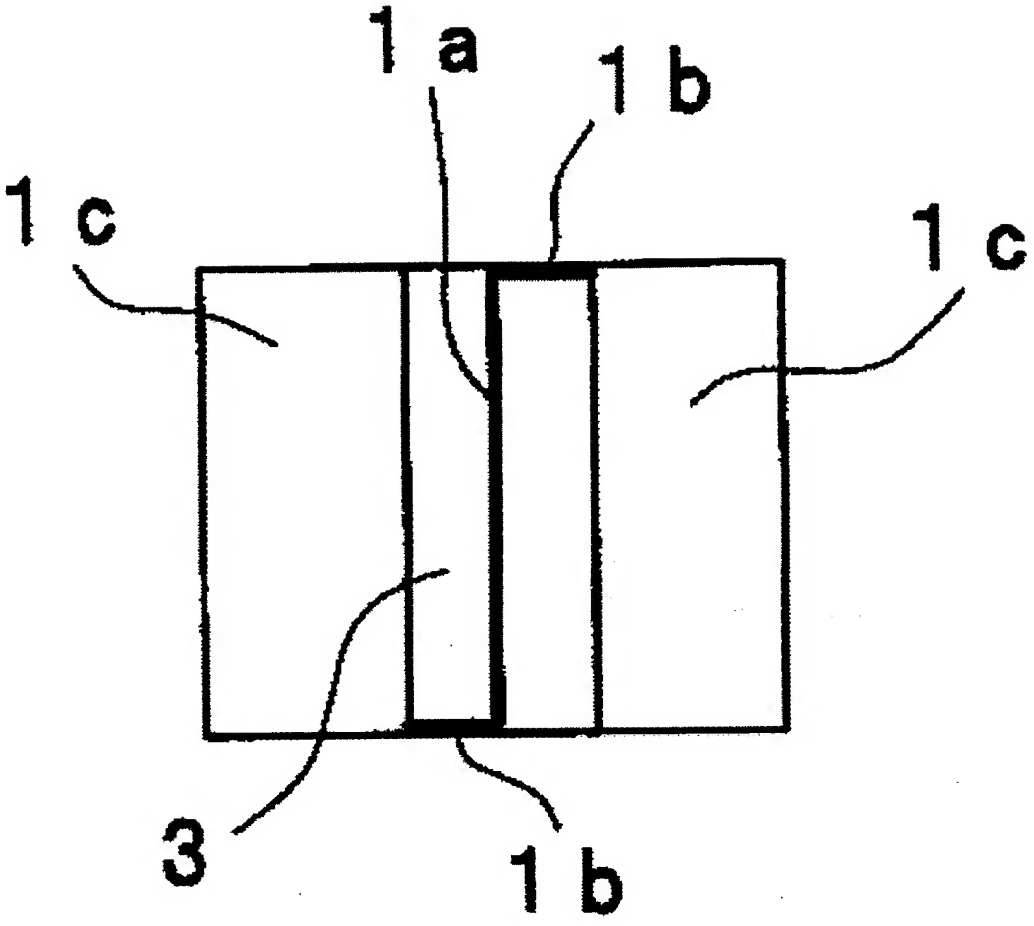


Fig. 3G

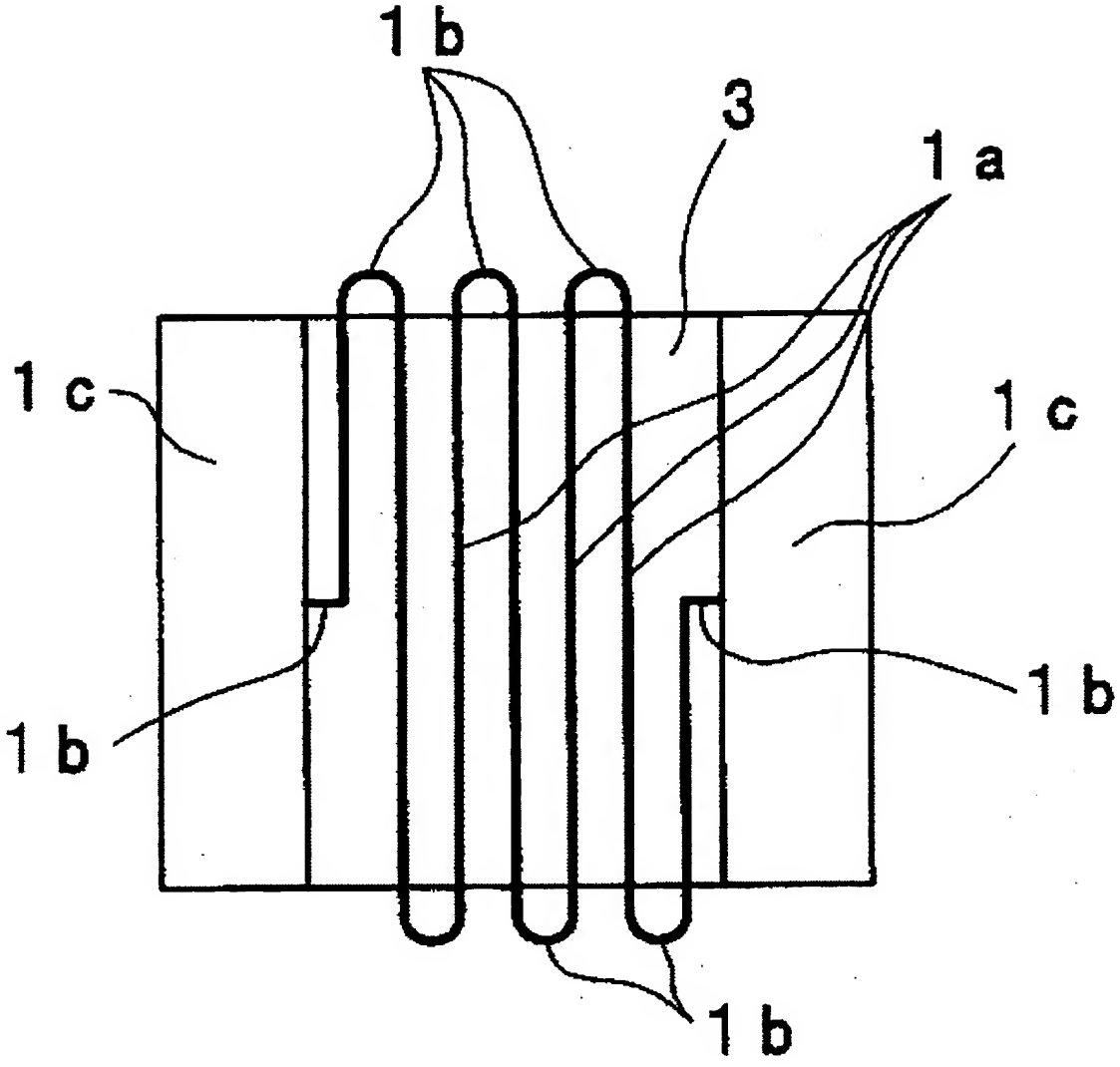


Fig. 3H

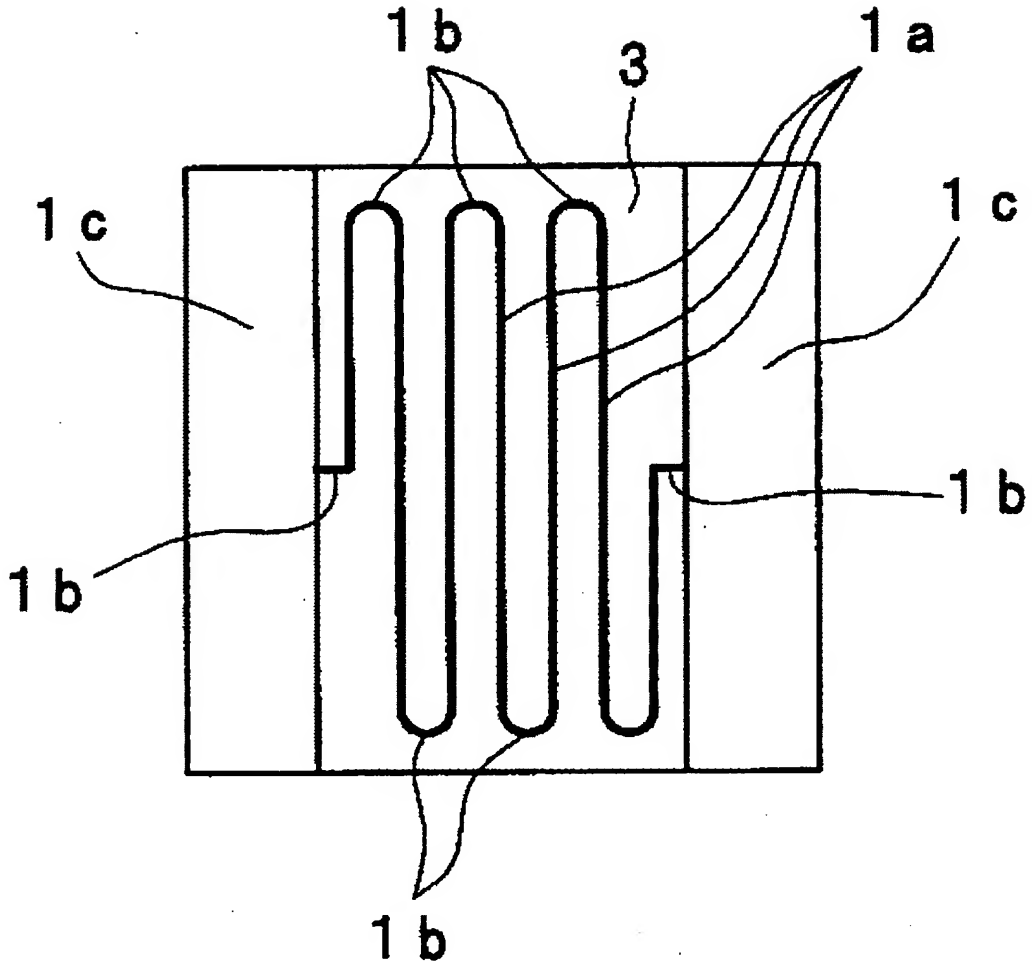


Fig. 4

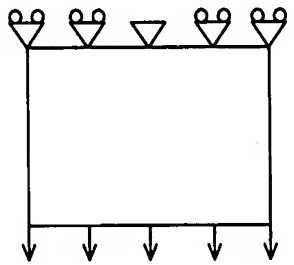
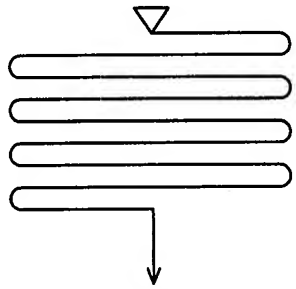
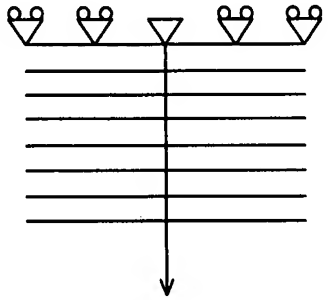
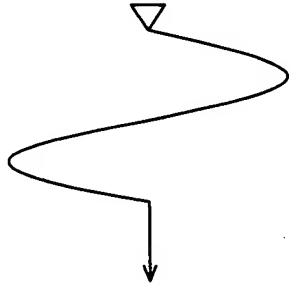
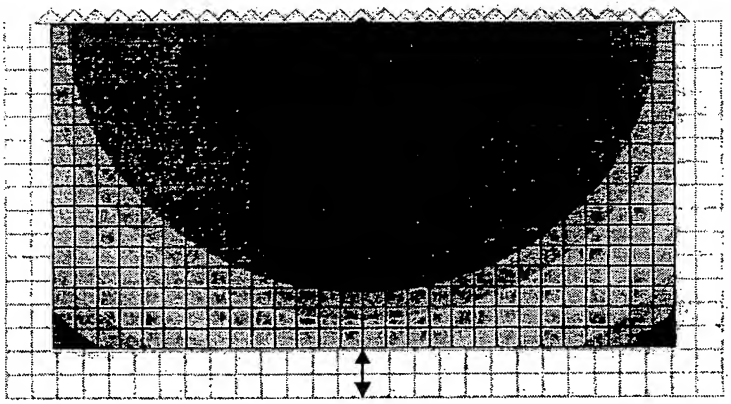
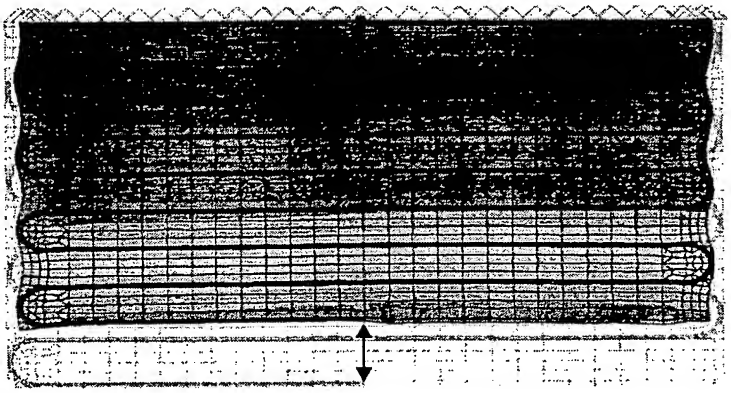
SHAPE OF ELECTRODE	(a) FLAT PLATE (SOLID SHAPE)	(b) FIRST EMBODIMENT	(c) CASE OF ALIGNING LINK PORTIONS IN LONGITUDINAL DIRECTION	(d) WAVEFORM
ELECTRODE CONFIGURATION DIAGRAMS				
ASSUMED VALUE FOR CALCULATION MATERIAL:SUS304 ELASTIC MODULUS: $E=0.072 \times 10^{12}$ N/m^2 PLATE THICKNESS: 0.010mm	SIZE WIDTH:14mm, LENGTH: 8mm LOAD (DISTRIBUTED LOAD): TOTAL LOAD =1mN	SIZE TOTAL WIDTH: 14mm, TOTAL LENGTH: 8mm, LINE WIDTH: 0.1mm, Pitch: 1mm, LOAD (CONCENTRATED LOAD): 1mN	SIZE TOTAL WIDTH: 14mm, TOTAL LENGTH: 8mm, LINE WIDTH: 0.1mm, Pitch: 1mm, LOAD (CONCENTRATED LOAD): 1mN	SIZE TOTAL WIDTH: 14mm, TOTAL LENGTH: 8mm, LINE WIDTH: 0.1mm, Pitch: 8mm, LOAD (CONCENTRATED LOAD): 1mN
CALCULATION RESULT	DISPLACEMENT 0.308 μm	DISPLACEMENT 50.56mm	DISPLACEMENT 38.6 μm	DISPLACEMENT 3.31mm
RIGIDITY RATIO *RATIO IN RIGIDITY TO FLAT PLATE	1	6.1×10^{-6}	7.9×10^{-3}	9.31×10^{-5}

Fig.5A



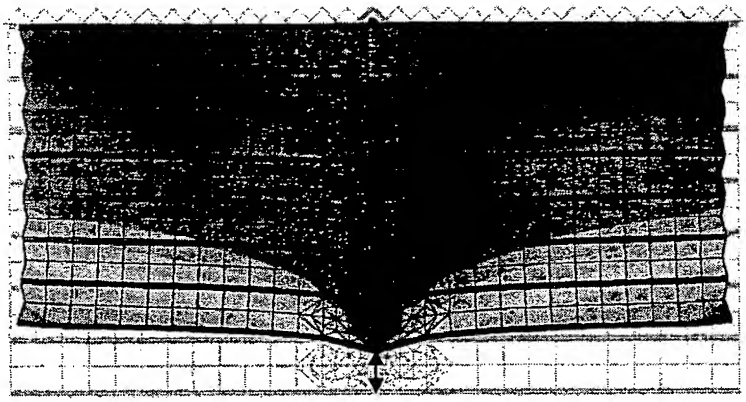
RELATIVE DISPLACEMENT : 1

Fig.5B



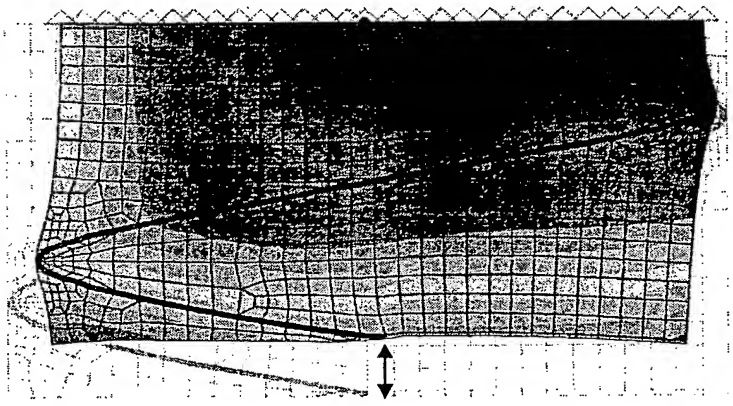
RELATIVE DISPLACEMENT : 1.16

Fig.5C



RELATIVE DISPLACEMENT : 0.62

Fig.5D



RELATIVE DISPLACEMENT : 1.09

Fig. 5E

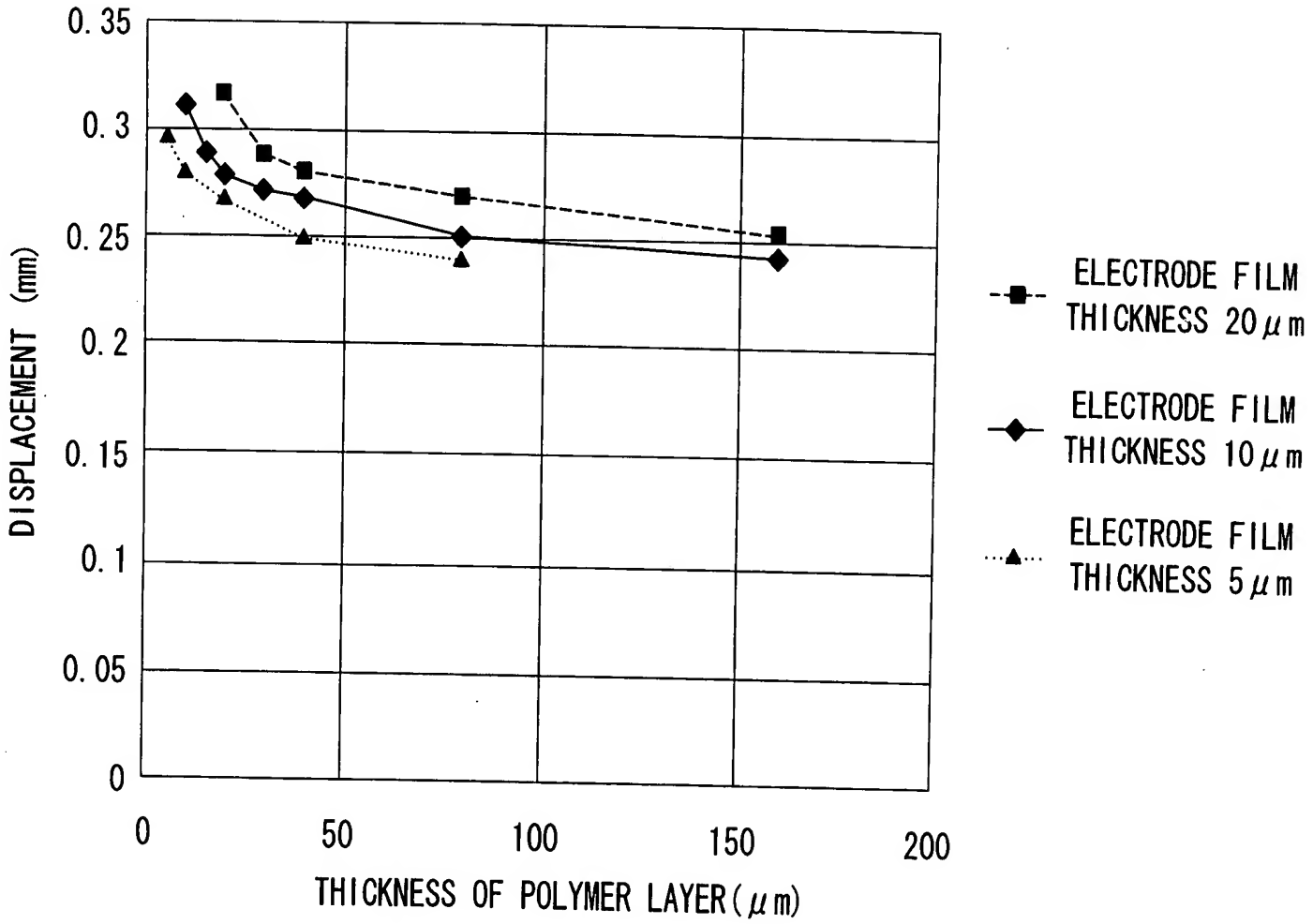

0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
DISPLACEMENT (mm)
0
50
100
150
200
THICKNESS OF POLYMER LAYER(μm)
ELECTRODE FILM THICKNESS 20μm
ELECTRODE FILM THICKNESS 10μm
ELECTRODE FILM THICKNESS 5μm

Fig. 5F

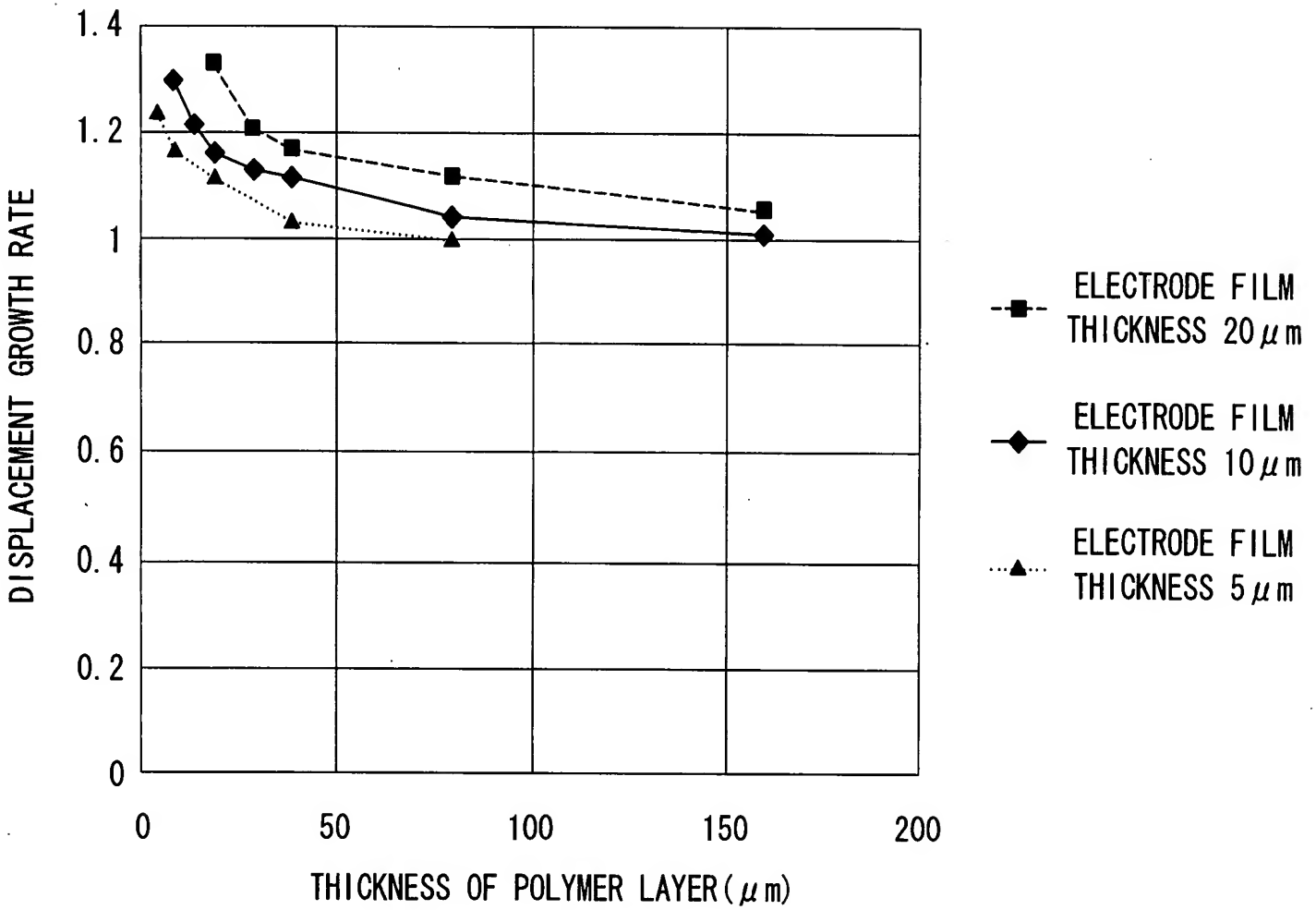

1.4
1.2
1
0.8
0.6
0.4
0.2
0
DISPLACEMENT GROWTH RATE
0
50
100
150
200
THICKNESS OF POLYMER LAYER(μm)
ELECTRODE FILM THICKNESS 20μm
ELECTRODE FILM THICKNESS 10μm
ELECTRODE FILM THICKNESS 5μm

Fig. 5G

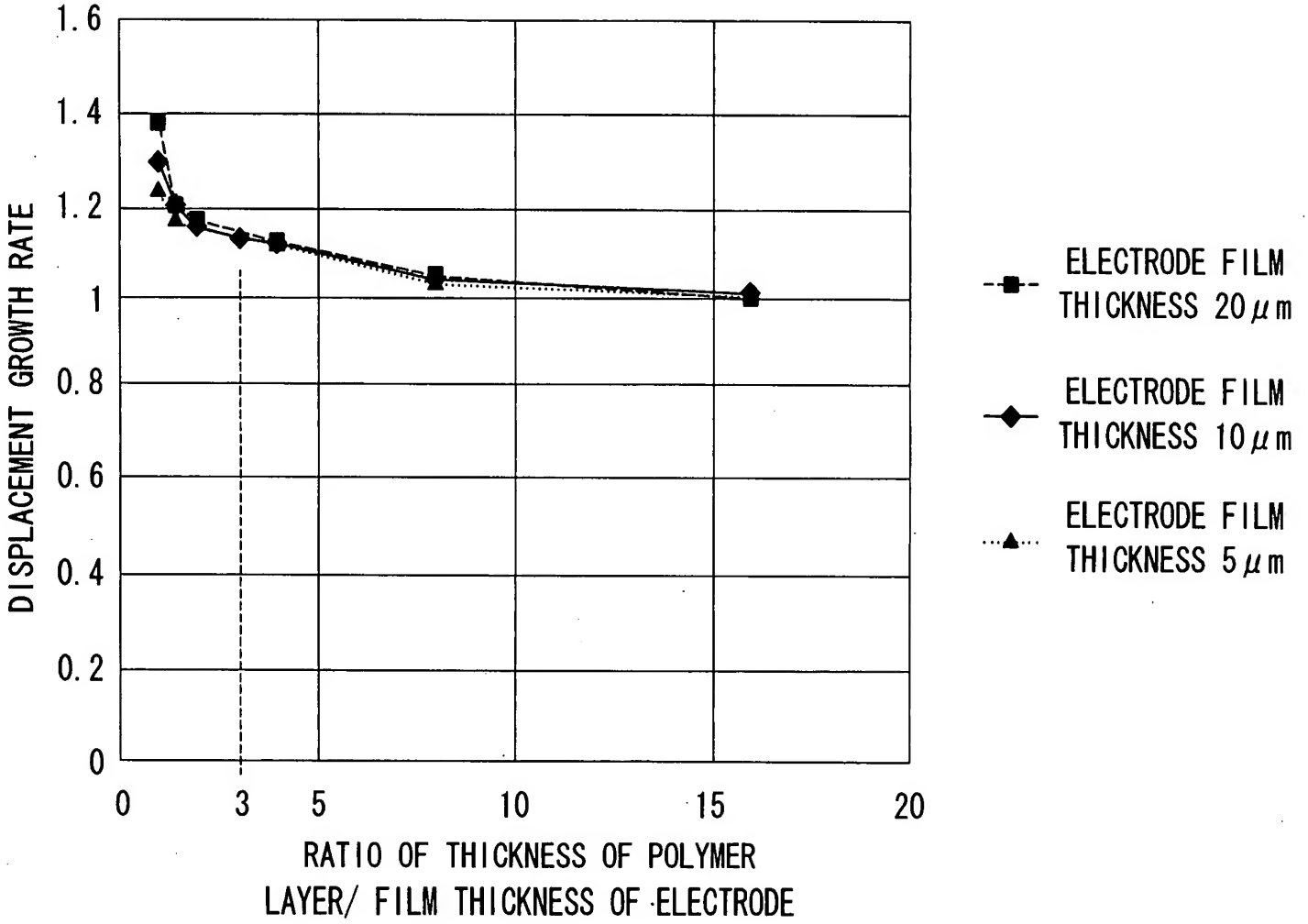

1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
DISPLACEMENT GROWTH RATE
0
3
5
10
15
20
RATIO OF THICKNESS OF POLYMER LAYER/ FILM THICKNESS OF ELECTRODE
ELECTRODE FILM THICKNESS 20μm
ELECTRODE FILM THICKNESS 10μm
ELECTRODE FILM THICKNESS 5μm

Fig. 6

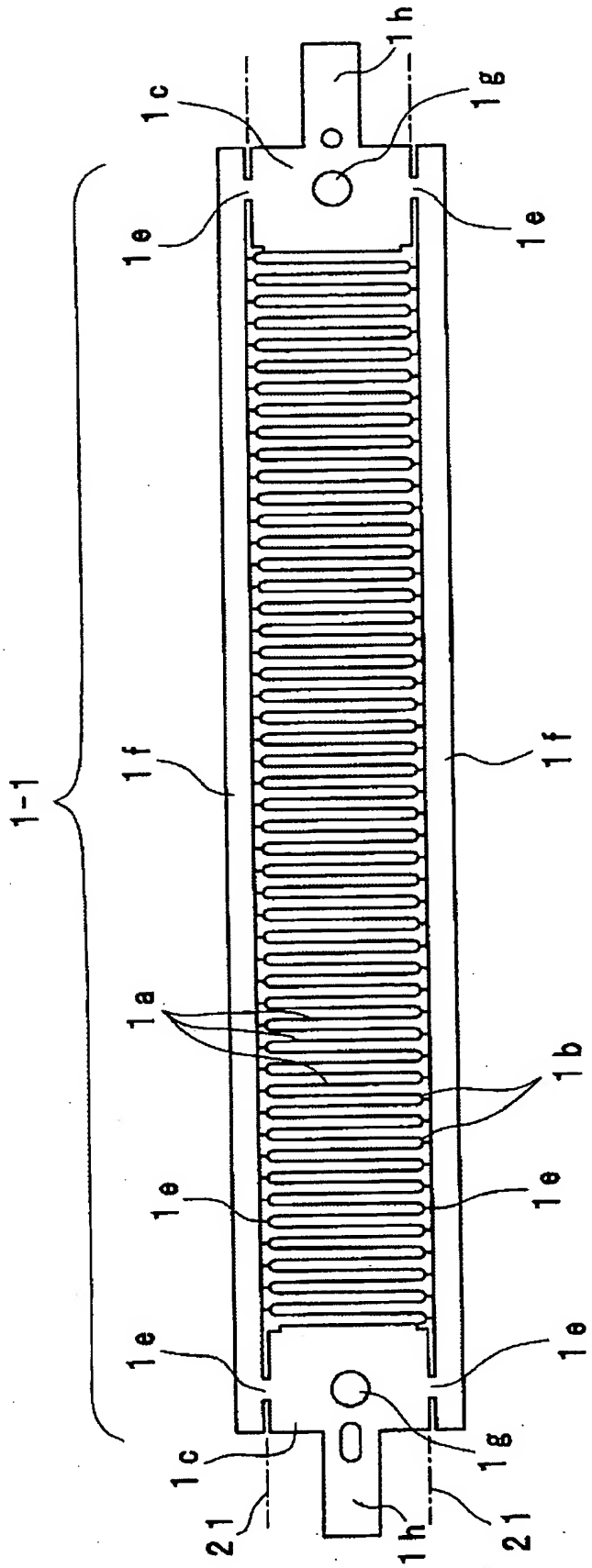


Fig. 7A

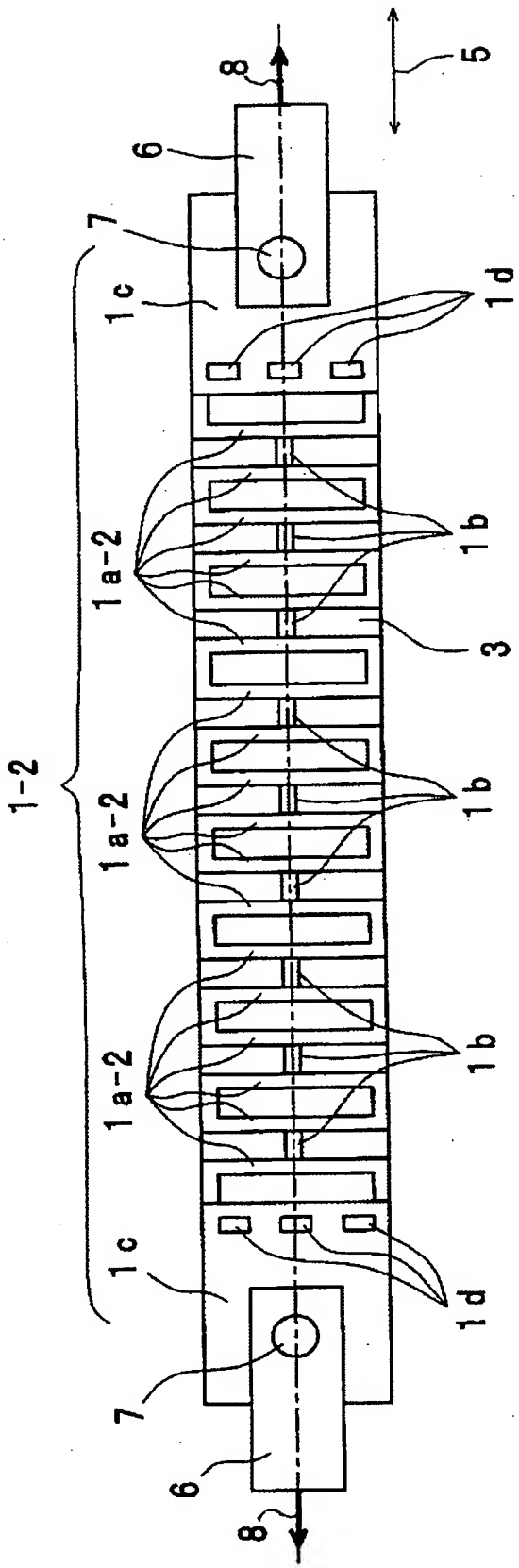
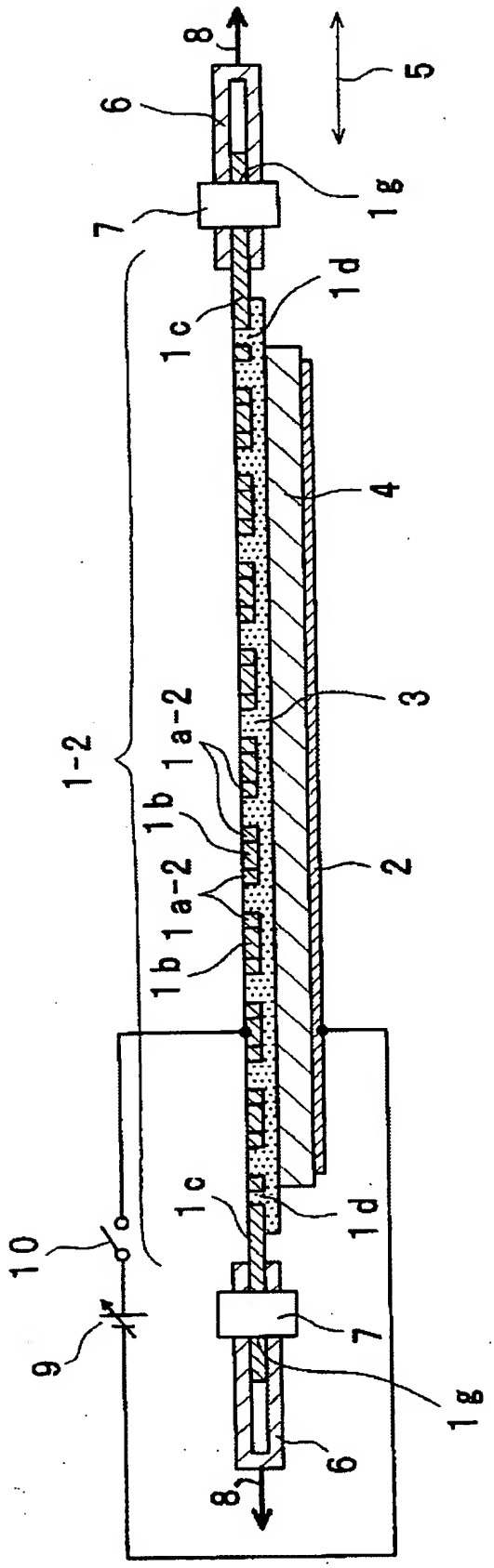


Fig. 7B



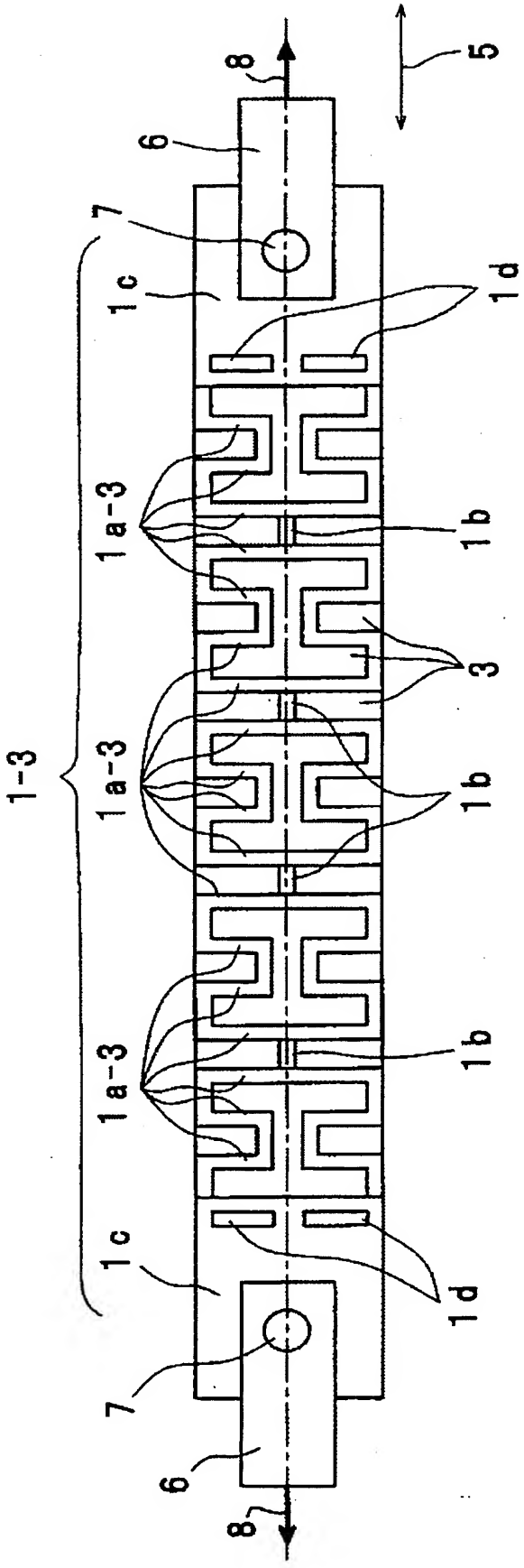


Fig.8A

Fig.8B

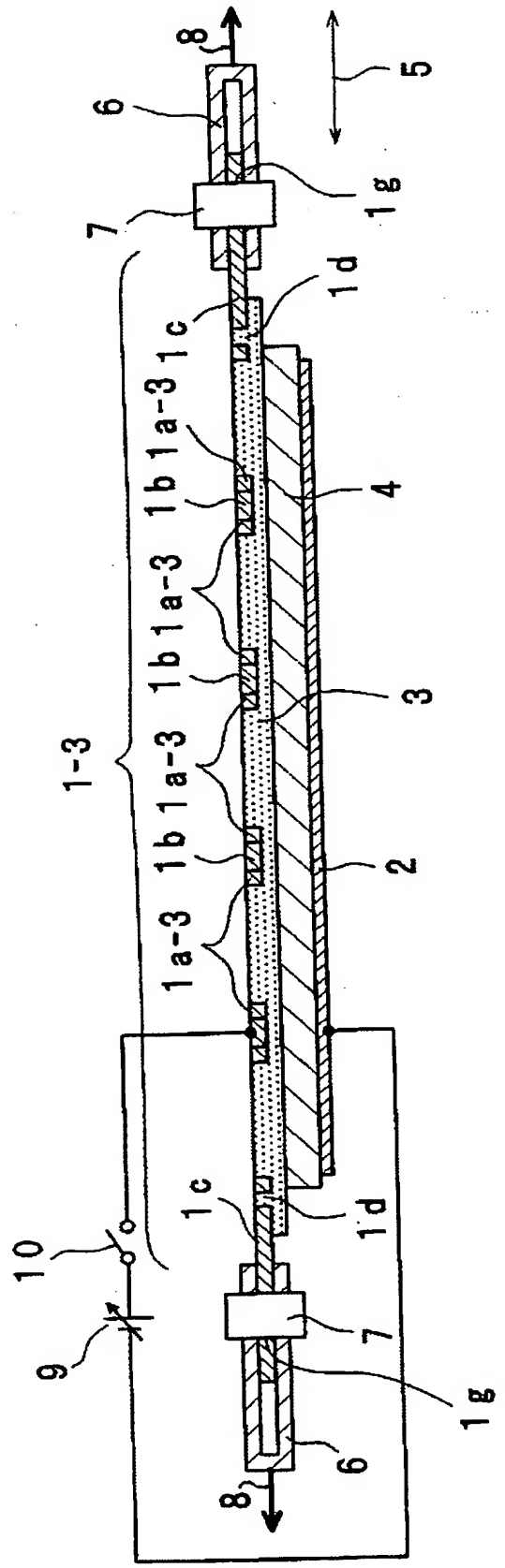


Fig. 9A

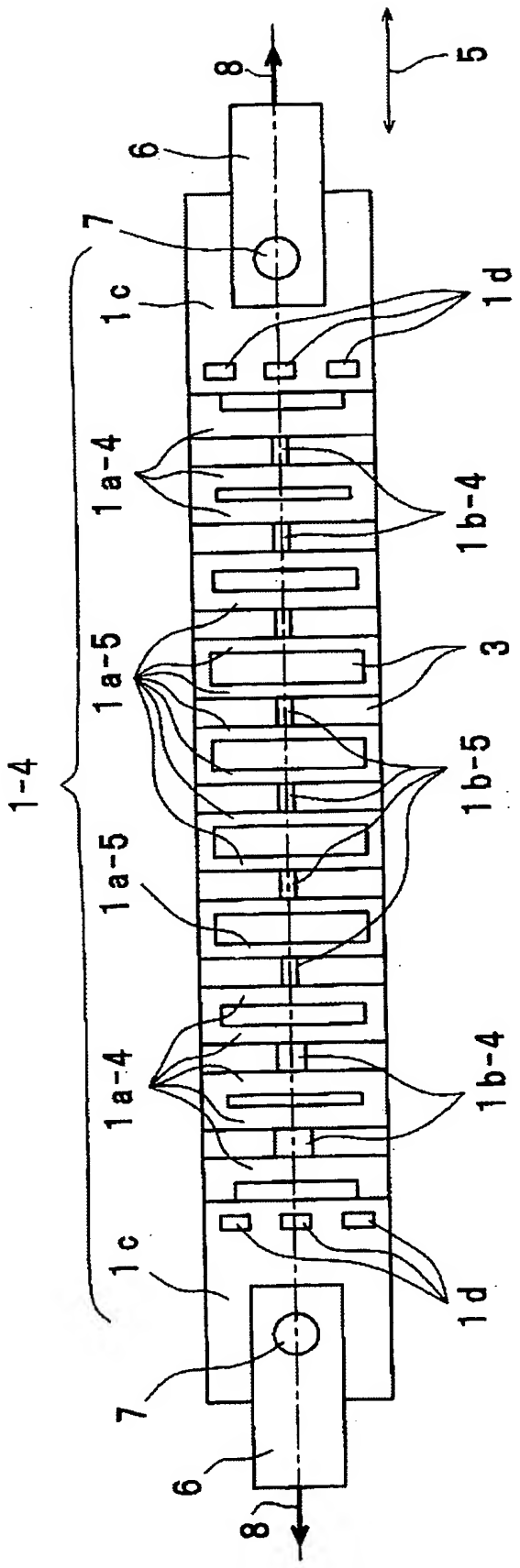


Fig. 9B

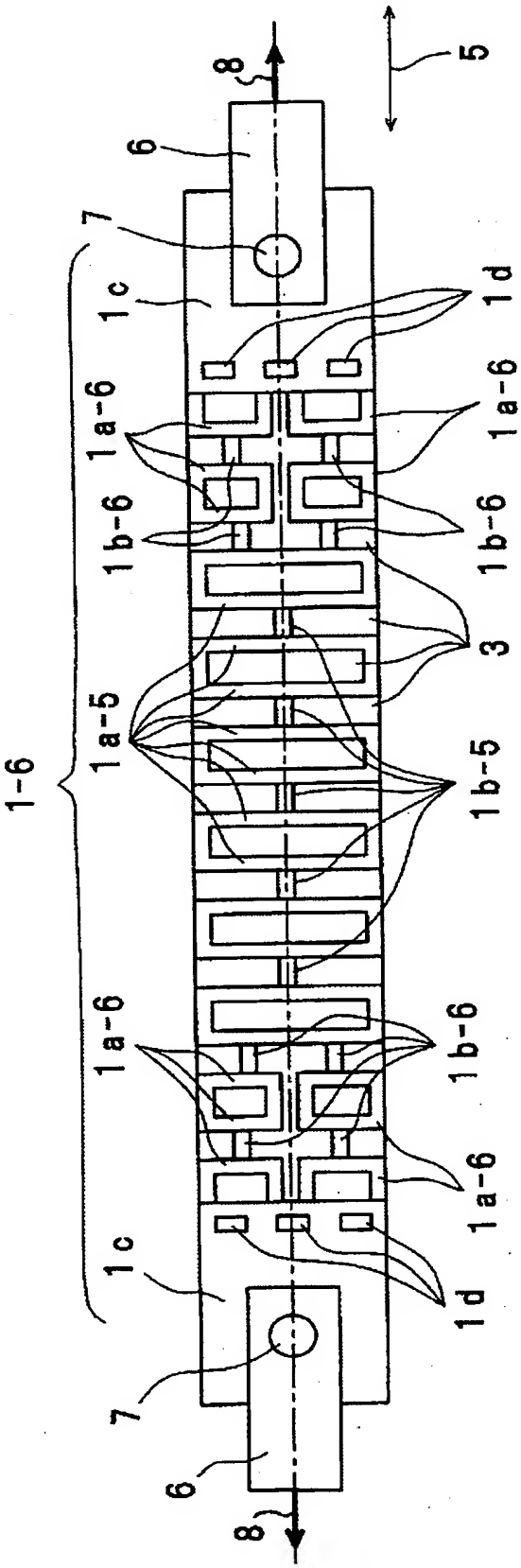
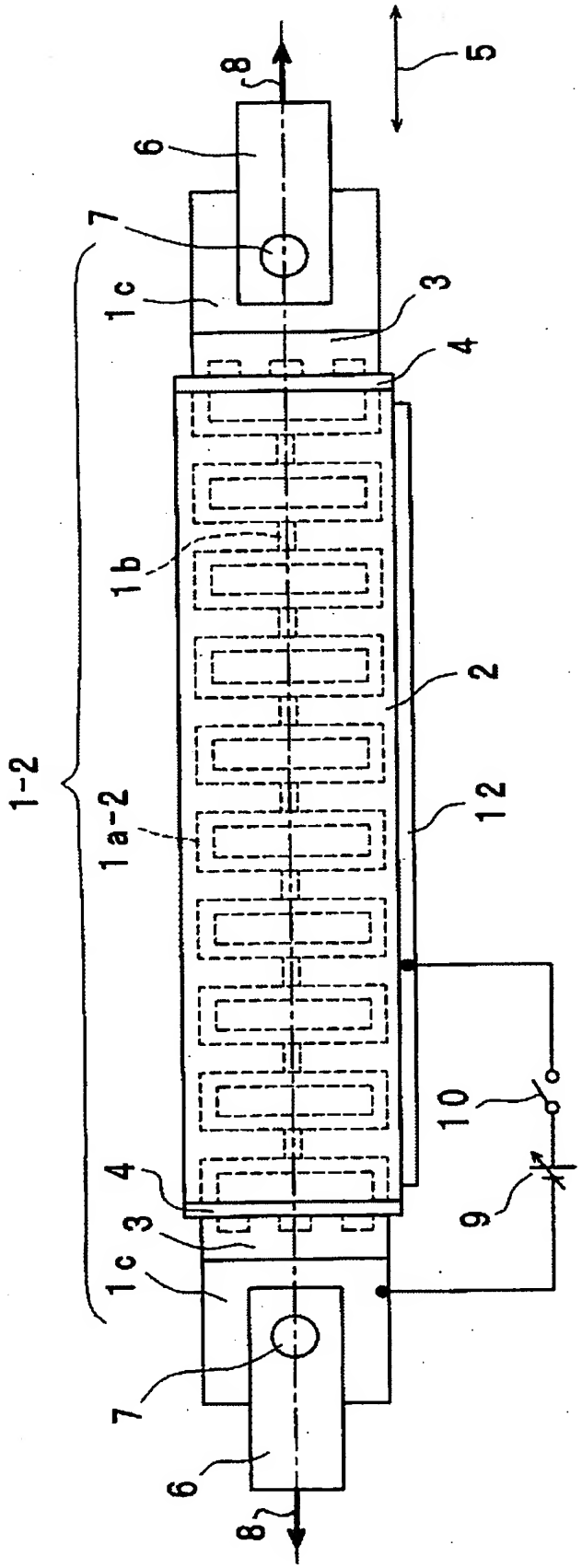


Fig.10A



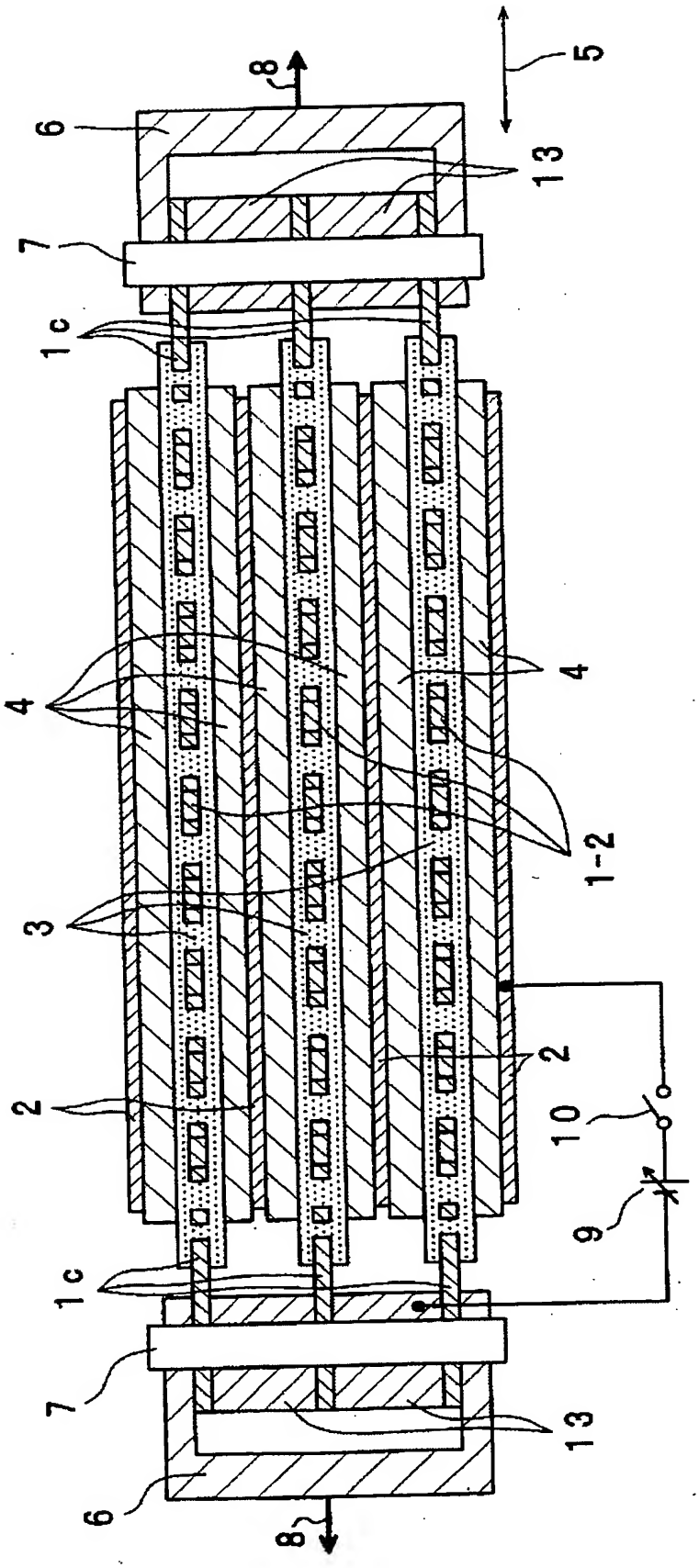


Fig.10B

Fig.11A

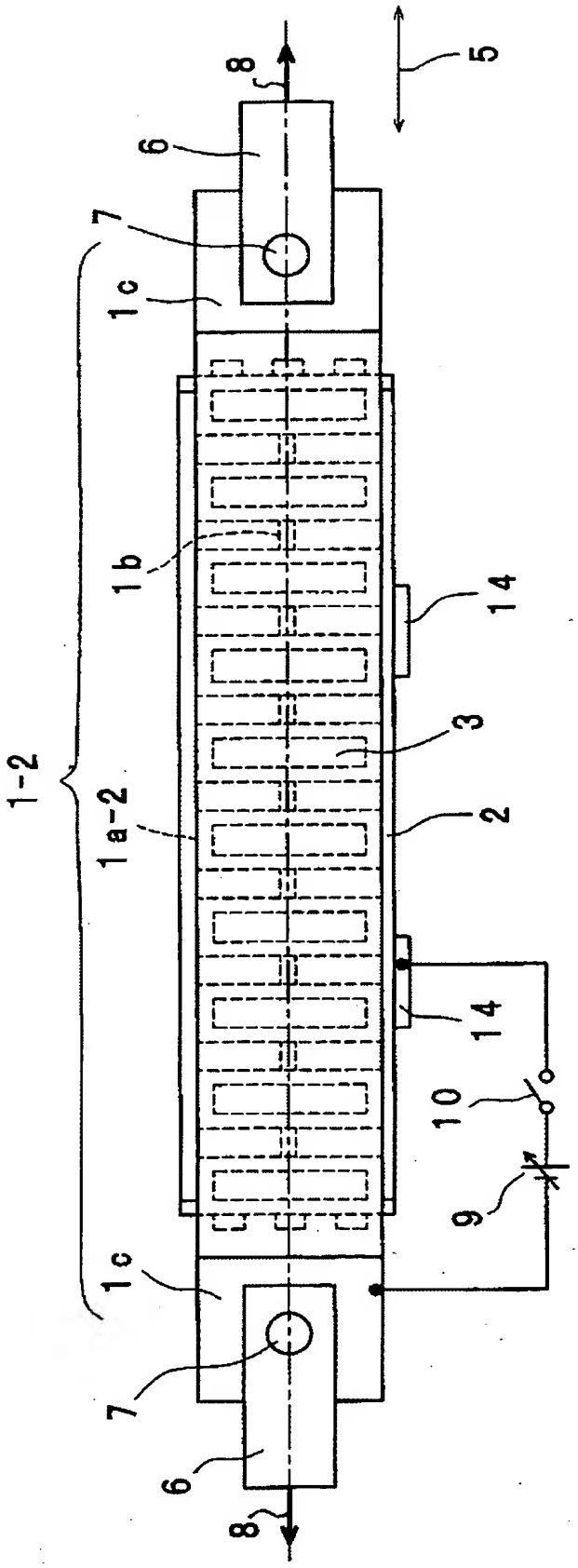


Fig. 1 1B

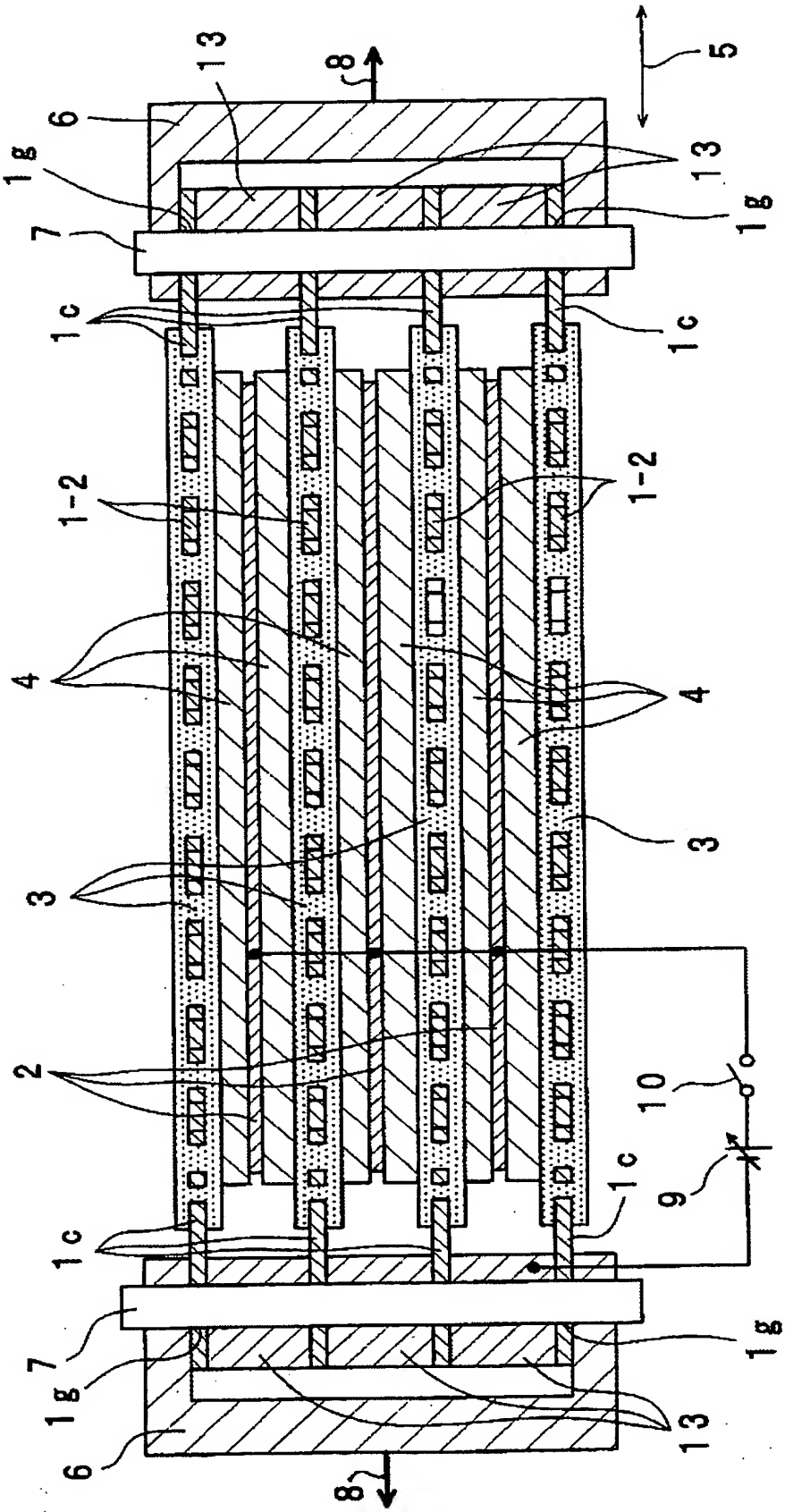
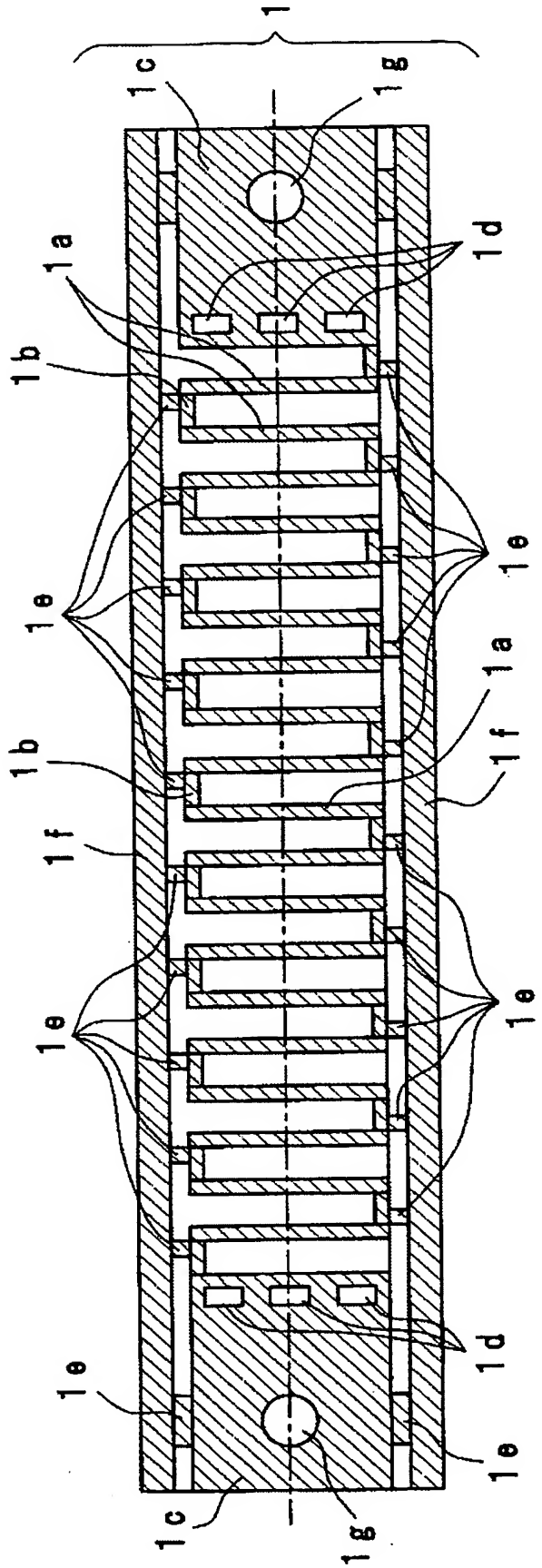


Fig. 12A



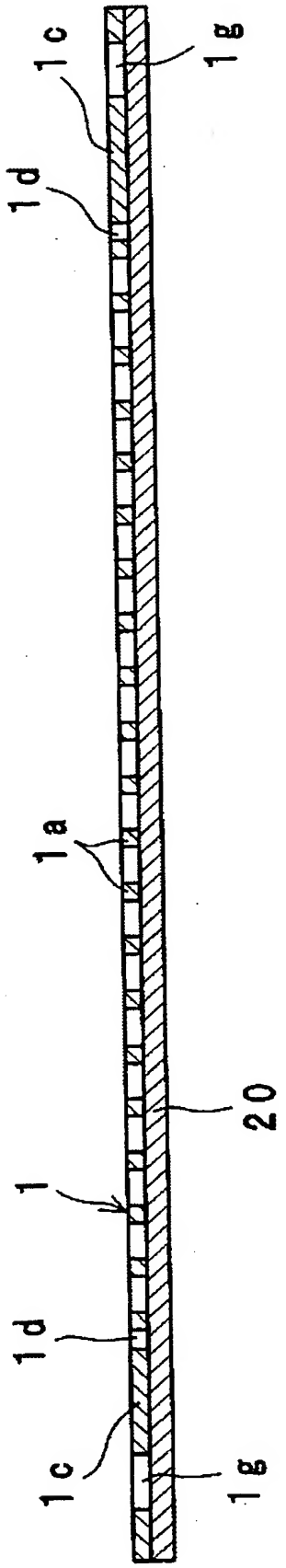


Fig. 12B

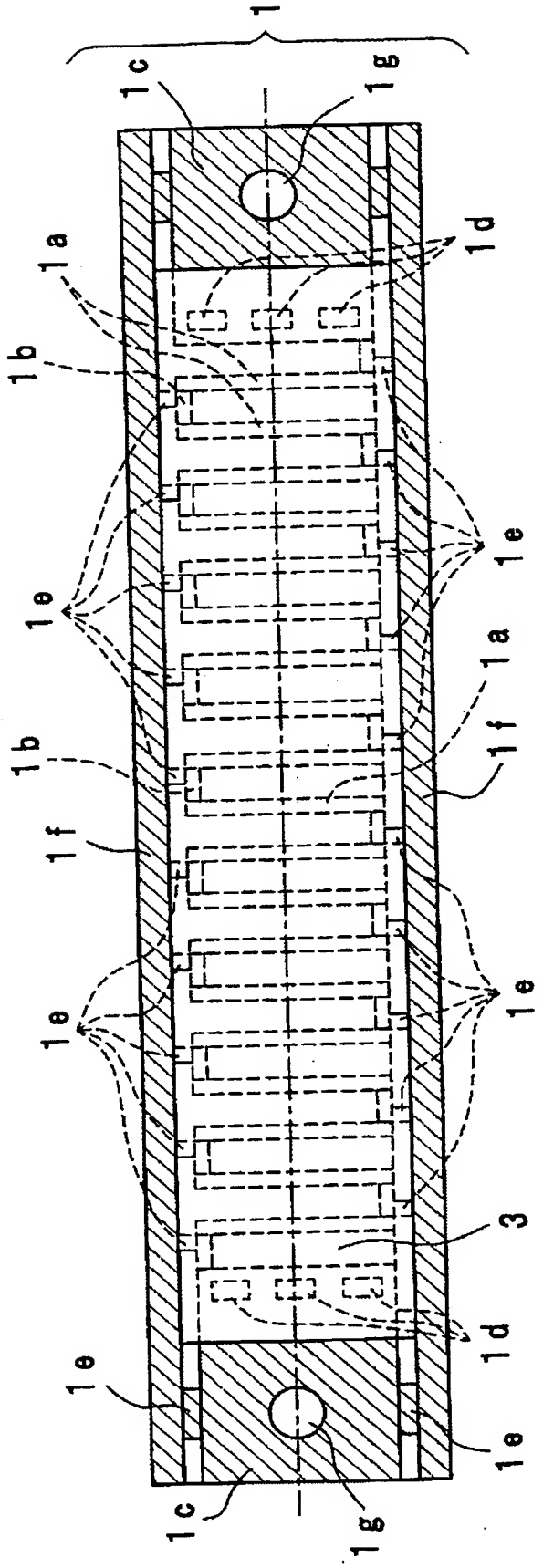


Fig. 12C

Fig.12D

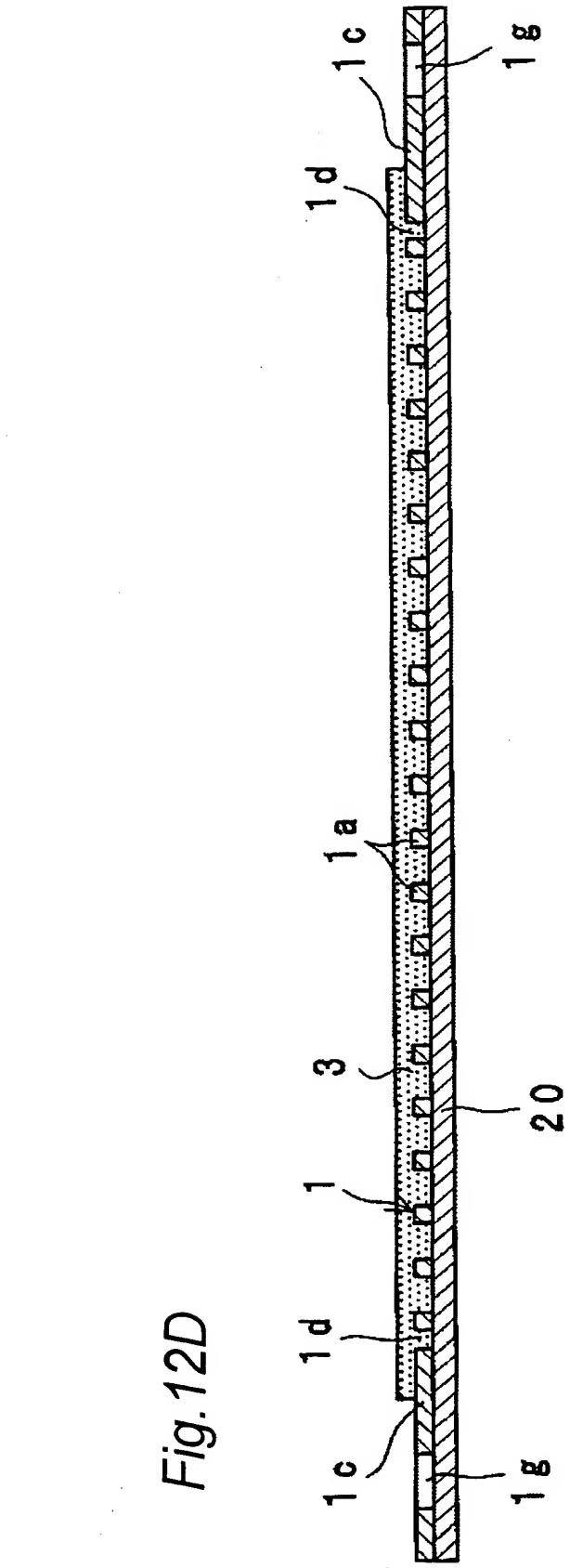


Fig.12E

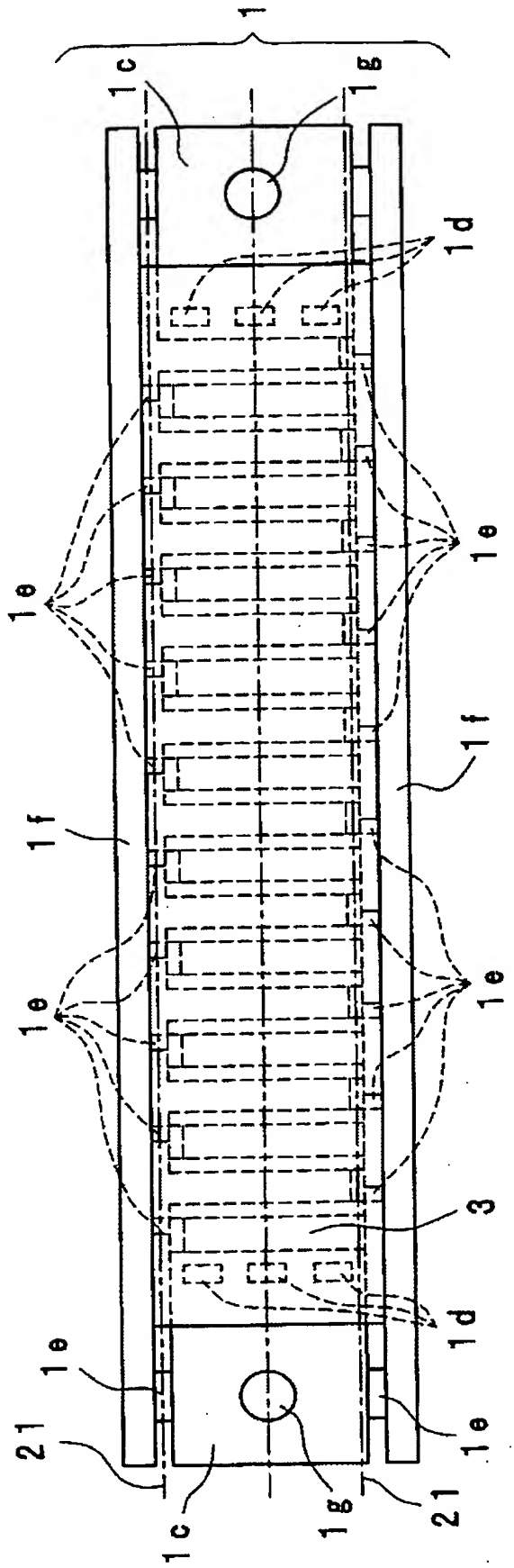


Fig. 12F

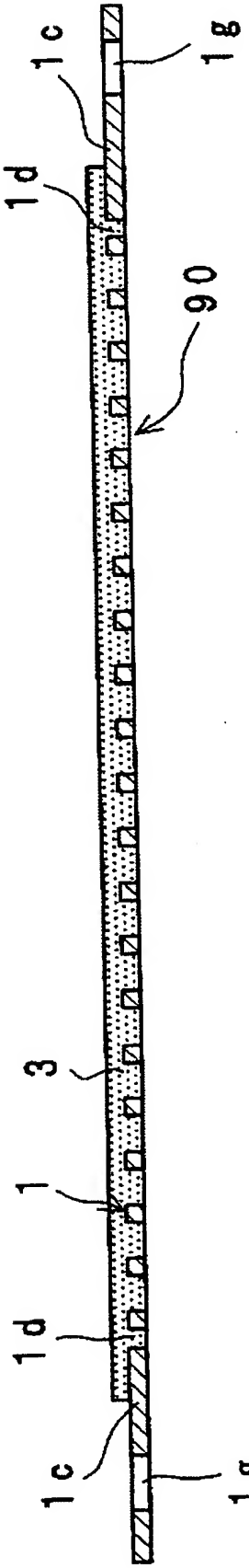
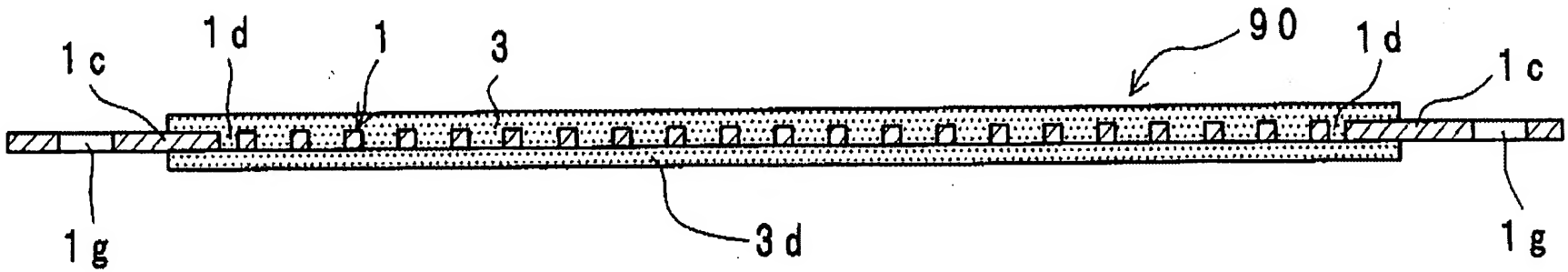


Fig.12G



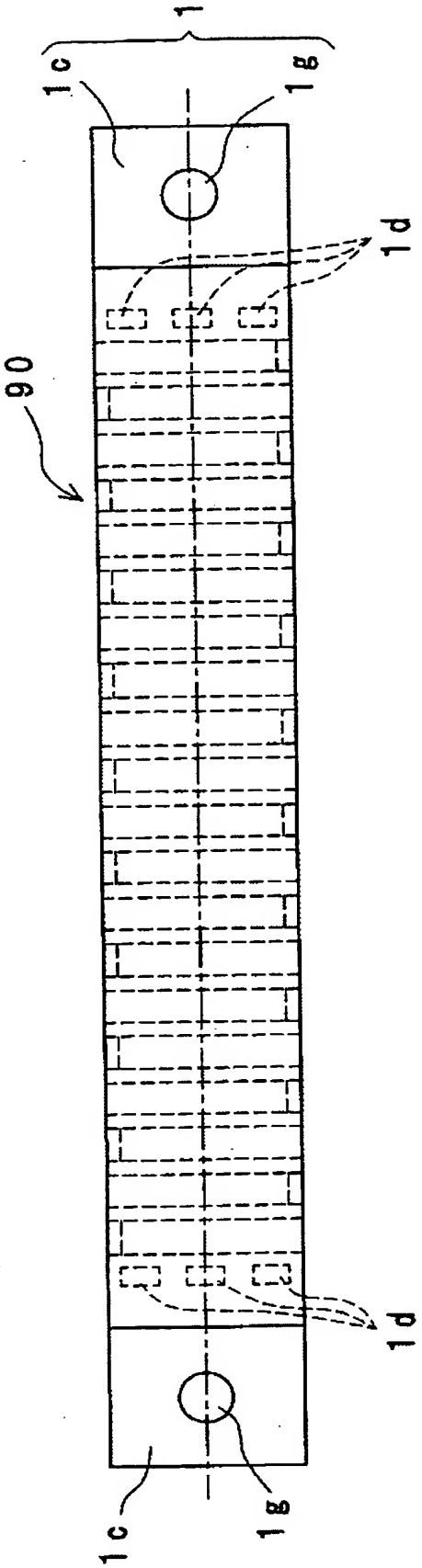


Fig.12H

Fig.12 I

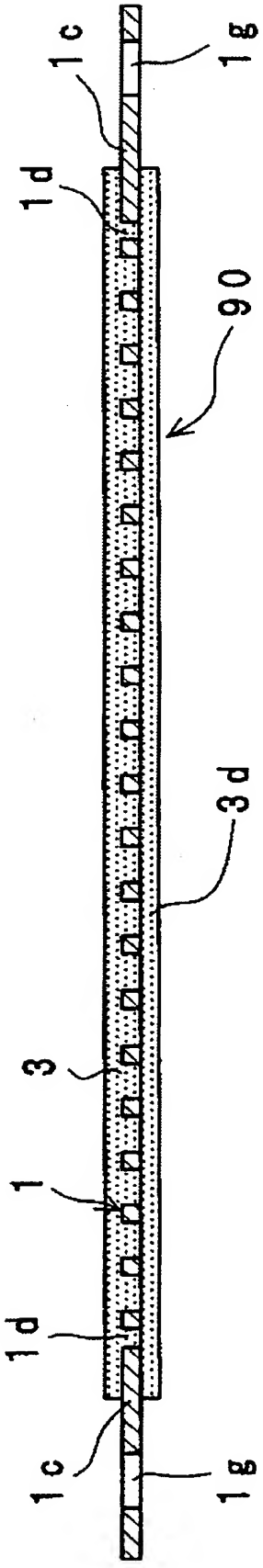


Fig.13A

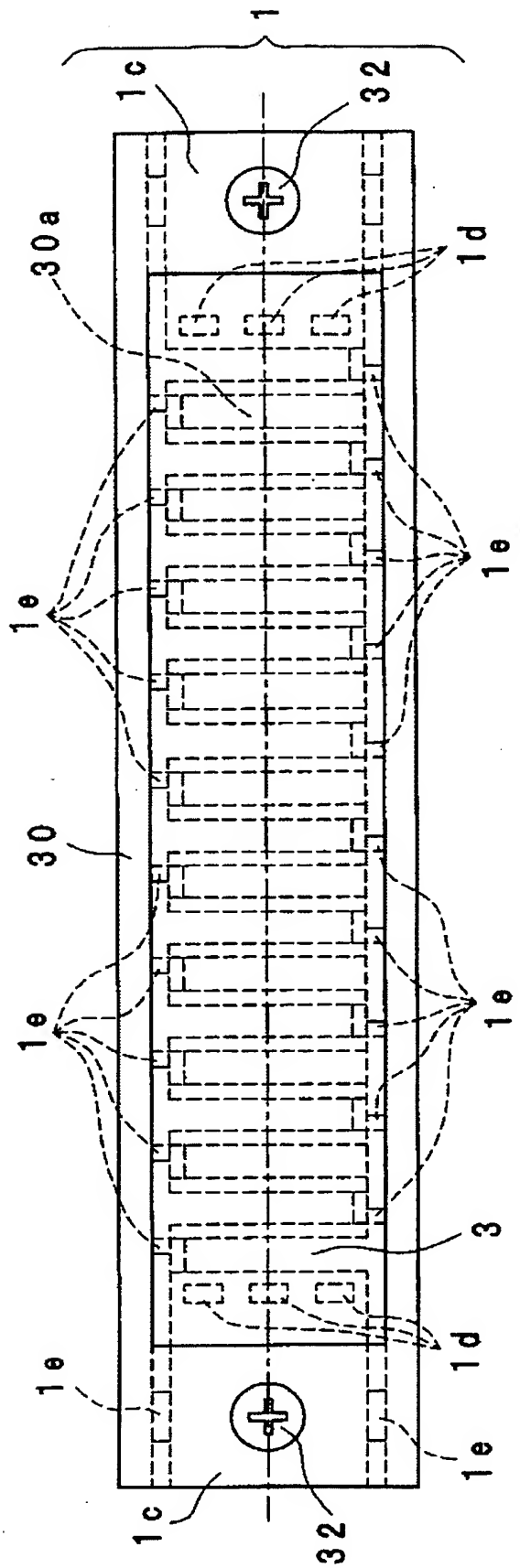


Fig.13B

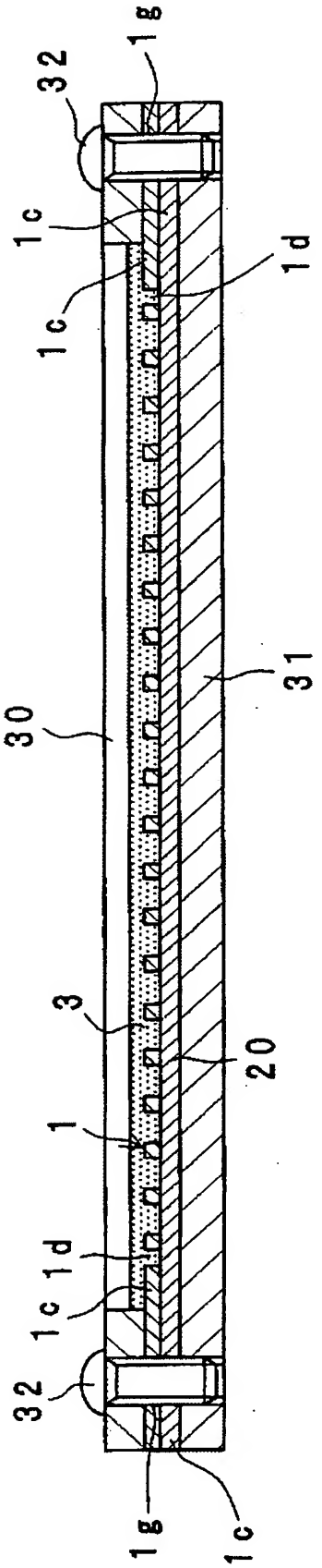


Fig.13C

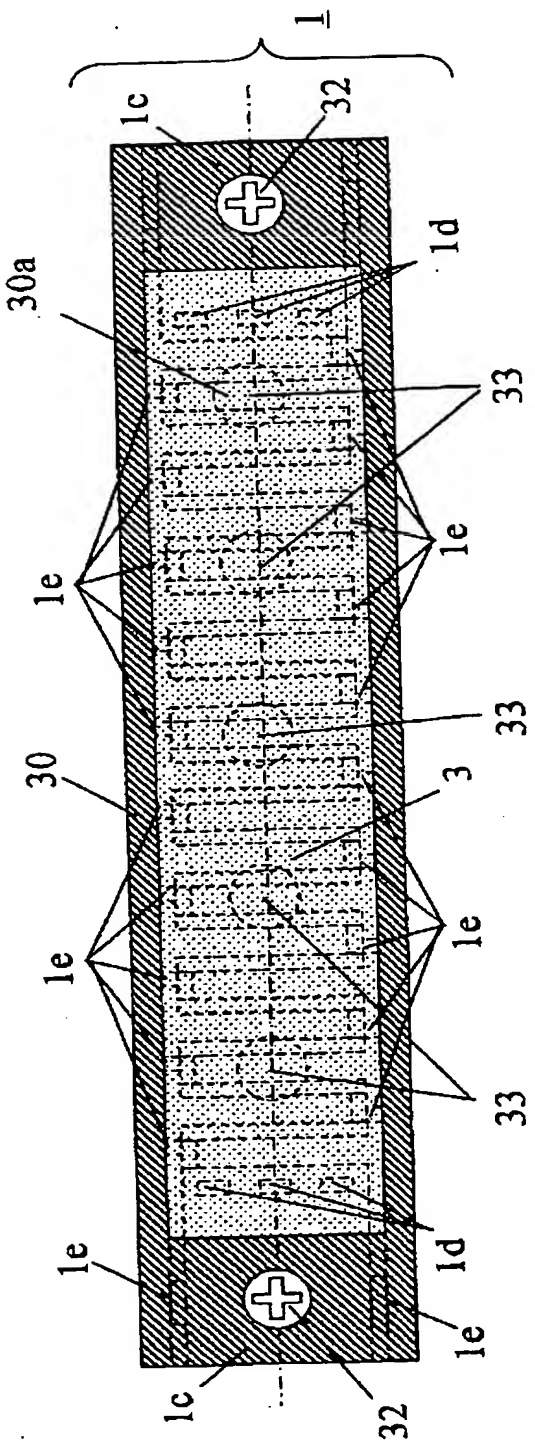


Fig.13D

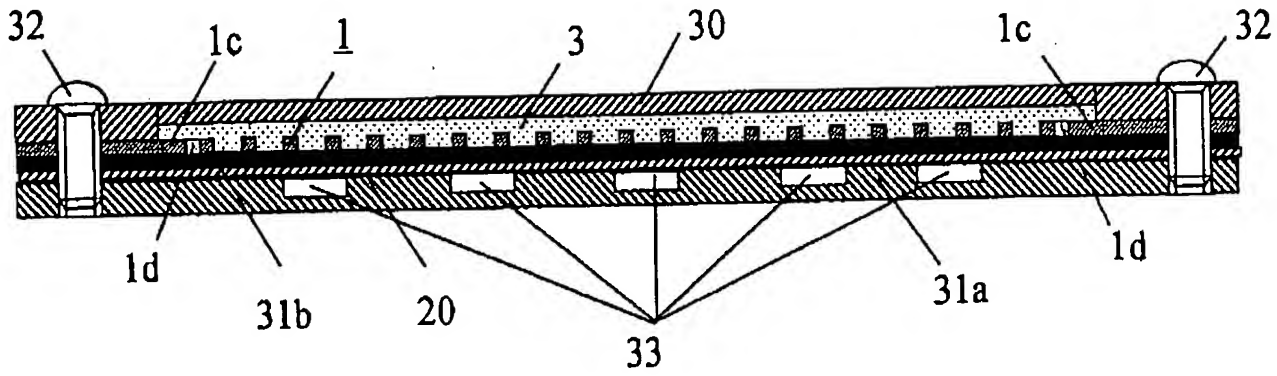


Fig.13F

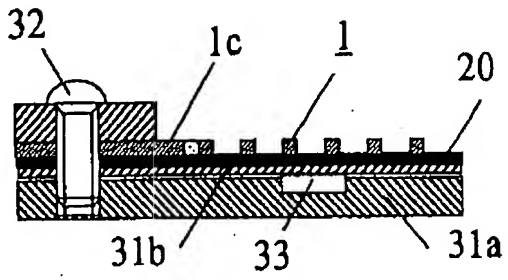
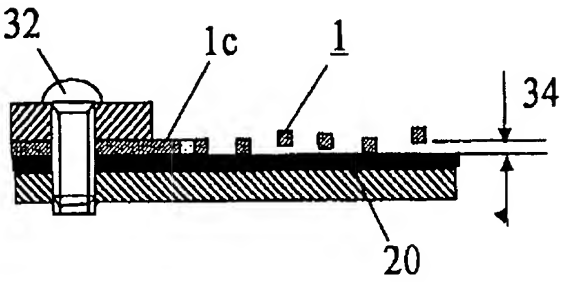


Fig.13E



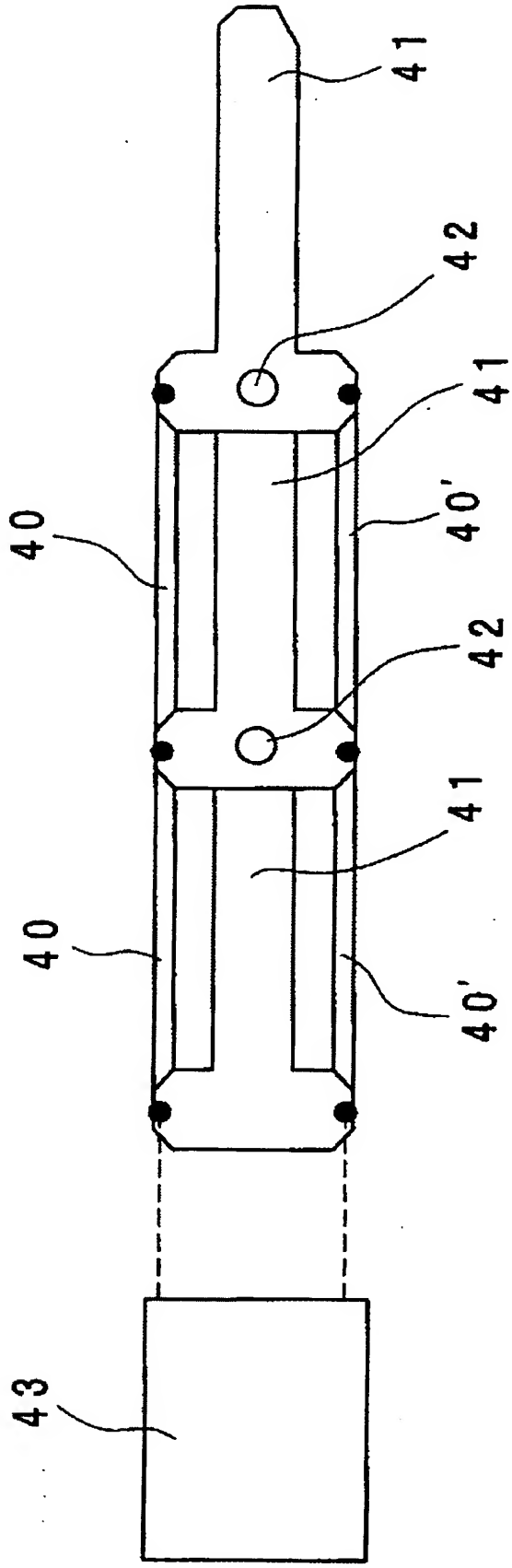


Fig.14A

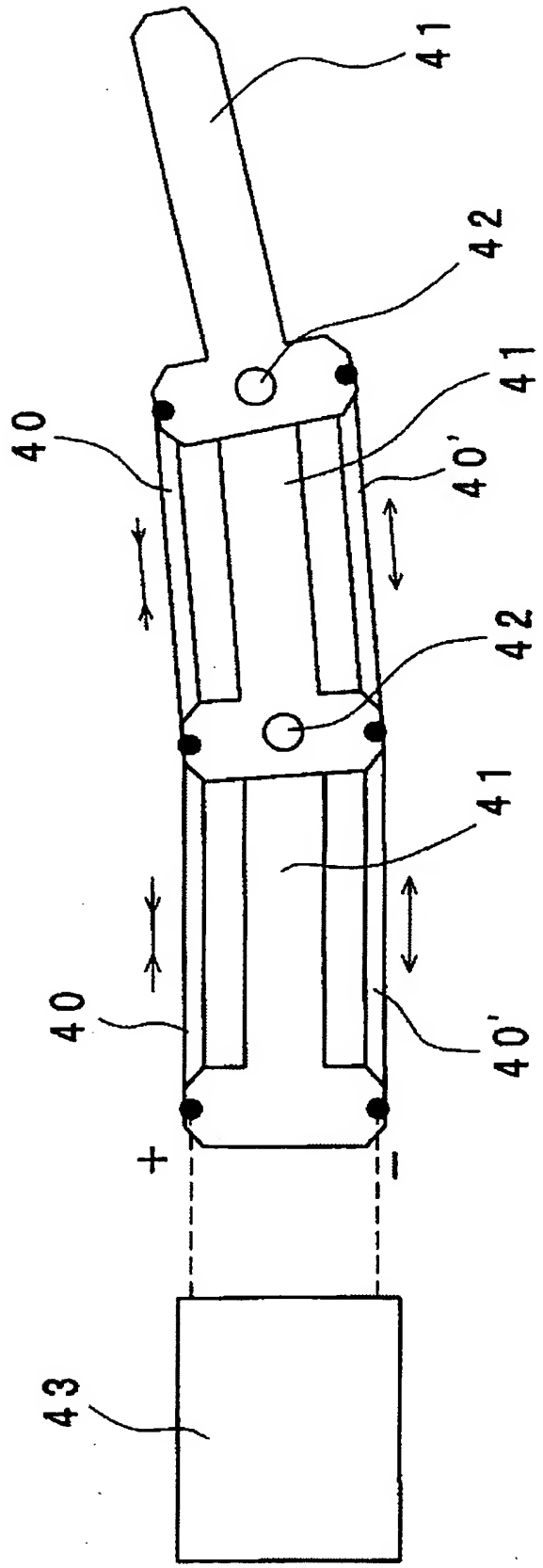


Fig.14B